#### Product Information

Common features of Delrin® acetal resins include mechanical and physical properties such as high mechanical strength and rigidity, excellent fatigue and impact resistance, as well as resistance to moisture, gasoline, lubricants, solvents, and many other neutral chemicals. Delrin® acetal resins also have excellent dimensional stability and good electrical insulating characteristics. They are naturally resilient, self-lubricating, and available in a variety of colors and speciality grades.

Delrin® acetal resin typically is used in demanding applications in the automotive, domestic appliances, sports, industrial engineering, electronics, and consumer goods industries.

Delrin® 100AF is a high viscosity acetal homopolymer containing 20% Teflon® PTFE fibers. It is designed for applications requiring low wear and/or low friction against steel, itself, or other plastics.

#### Due to the color of the Teflon® PTFE fibers, the natural color of this material is brown.

Product information	Value	Unit	Test Standard
Resin Identification	POM-SF20		ISO 1043
Part Marking Code	POM-SF20	-	ISO 11469
Rheological properties	Value	Unit	Test Standard
Melt mass-flow rate	1.1	g/10min	ISO 1133
Melt mass-flow rate, Temperature	190	°C	ISO 1133
Melt mass-flow rate, Load	2.16	kg	ISO 1133
Molding shrinkage, parallel	2.1	%	ISO 294-4, 2577
Molding shrinkage, normal	1.5	%	ISO 294-4, 2577
Mechanical properties	Value	Unit	Test Standard
Tensile Modulus	2700	MPa	ISO 527-1/-2
Stress at break	53	MPa	ISO 527-1/-2
Strain at break	15	%	ISO 527-1/-2
Flexural Modulus	2500	MPa	ISO 178
Charpy impact strength, 73°F	70	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 73°F	5	kJ/m²	ISO 179/1eA
Izod notched impact strength, 73°F	5	kJ/m²	ISO 180/1A
Thermal properties	Value	Unit	Test Standard
Melting temperature, 18°F/min	178	°C	ISO 11357-1/-3
Temp. of deflection under load, 260 psi	87	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2
RTI, electrical			UL 746B
60mil	105	°C	
120mil	105	°C	
RTI, impact			UL 746B
60mil	85	°C	
120mil	85	°C	
RTI, strength			UL 746B
60mil	90	°C	
120mil	90	°C	
Flammability	Value	Unit	Test Standard
Burning Behav. at 60mil nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	yes	-	UL 94
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
UL recognition	yes	-	UL 94
FMVSS Class	В	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<80	mm/min	ISO 3795 (FMVSS 302)
Other properties	Value	Unit	Test Standard
Density	1540	kg/m³	ISO 1183

#### Revised: 2019-03-22

Tel: +1 302 999-4592

Toll-Free (USA): 800 441-0575

#### To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

North America

Asia Pacific

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Europe/Middle East/Africa Tel: +41 22 717 51 11



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Injection	Value	Unit	Test Standard
Drying Recommended	value	onic	-
Drying Temperature	<u></u> ≥80	°C	-
Drying Time, Dehumidified Dryer	2 - 4	h	-
Processing Moisture Content	≤0.2	%	-
Melt Temperature Optimum	215	°C	-
Min. melt temperature	210	°C	
Max. melt temperature	220	°C	-
Mold Temperature Optimum	90	°C	-
Min. mold temperature	80	°C	-
Max. mold temperature	100	°C	-
Hold pressure range	90 - 110	MPa	-
Hold pressure time	8	s/mm	-
Annealing time, optional	30	min/mm	-
Annealing temperature	160	°C	-
Extrusion	Value	Unit	Test Standard
Drying Temperature	75 - 85	°C	-
Drying Time, Dehumidified Dryer	2 - 4	h	-
Processing Moisture Content	≤0.2	%	-
Melt Temperature Optimum	200	°C	-
Melt Temperature Range	195 - 205	°C	-

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Dracassing	<ul> <li>Injection Molding</li> </ul>	<ul> <li>Sheet Extrusion</li> </ul>	
Processing	<ul> <li>Profile Extrusion</li> </ul>	<ul> <li>Other Extrusion</li> </ul>	
Delivery form	<ul> <li>Pellets</li> </ul>		
Additives	<ul> <li>Lubricants</li> </ul>	<ul> <li>Release agent</li> </ul>	
Degional Availability	North America	Asia Pacific	<ul> <li>Near East/Africa</li> </ul>
Regional Availability	Europe	<ul> <li>South and Central America</li> </ul>	<ul> <li>Global</li> </ul>

Processing Texts

Injection molding

Drying is recommended, but not necessary for newly opened packaging stored in a dry location.

Follow the drying guidelines above in the following cases:

 $\cdot$  If moisture is above the Processing Moisture Content recommendation,

 $\cdot$  When a resin container is damaged,

 $\cdot$  When the material is not properly stored in a dry place at room temperature, or

• When packaging stays open for a significant time.

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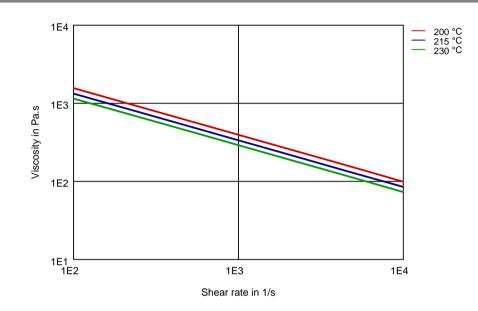
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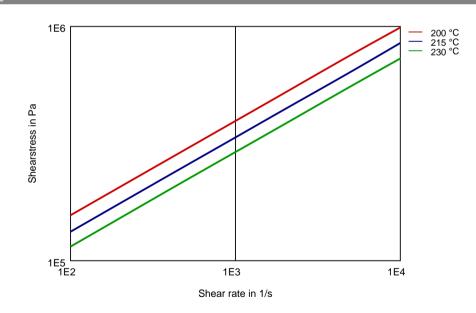


Diagrams

Viscosity-shear rate



### Shearstress-shear rate



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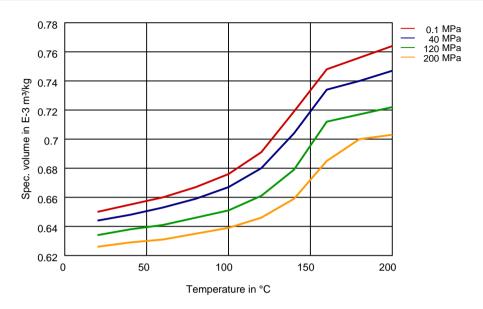
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Action of the set of t	Chemic	al Media Resistance
<ul> <li>✓ Acetic Acid (5% by mass) (23°C) Lettic Acid (3% by mass) (23°C) Lettic Acid (3% by mass) (23°C) Suffuric Acid (3% by mass) (23°C) Ammonium Hydroxide solution (1% by mass) (23°C)</li> <li>✓ Suffuric Acid (32°C) Elemanol (23°C)</li> <li>✓ Ibernanol (23°C) Elemanol (23°C)</li> <li>✓ In-Hexare (23°C) Comment Action (23°C)</li> <li>✓ In-Hexare (23°C) Elemanol (23°C)</li> <li>✓ In-Hexare (23°C) Elemanol (23°C)</li> <li>✓ Suffuric Acid (3% by mater on (123°C) Suffuric Acid (13% by mater on (130°C) Suffuric Acid (13% by mater on (130</li></ul>		
First Acid solution (10% by mass) (23°C) Lattic Acid (10% by mass) (23°C) Hydrochloric Acid (38% by mass) (23°C) Suffuric Acid (38% by mass) (23°C) Chromic Acid solution (40% by mass) (23°C) Solution: Acid solution (10% by mass) (23°C) Ammonium Hydroxide solution (10% by mass) (23°C) Solution: Acid solution (123°C) Solution: Acid solution (130°C) Solution: Acid solution (130°C) Solution: Acid solution (130°C) Solution: Acid solution (130°C) Solution: Solution: Acid solution (130°C) Solution: Solution: Acid solution (130°C) Solution: Solution: Acid solution: Acid solution (130°C) Solution: Solution: Acid solution: Aci		
Sodium Hydroxide solution (35% by mass) (23°C)         Sodium Hydroxide solution (10% by mass) (23°C)         Amonium Hydroxide solution (10% by mass) (23°C)         Amonium Hydroxide solution (10% by mass) (23°C)         Acchols <ul> <li>Isopropyl alcohol (23°C)</li> <li>Ethanol (23°C)</li> <li>Toluene (23°C)</li> <li>iso-Octane (23°C)</li> <li>iso-Octane (23°C)</li> </ul> Methanol (23°C)       Acctore (23°C)         V       n-Hexane (33°C)         V       roluene (23°C)         V       iso-Octane (23°C)         V       iso-Octane (23°C)         V       Acctone (23°C)         V       Safe 10W40 multigrade motor oil (23°C)         Safe 30°40 hypoid-gear oil (130°C)       Safe 30°40 hypoid-gear oil (130°C)         Safe 30°40 hypoid-gear oil (130°C)       Iso 1817 Liquid 1 - E5 (60°C)         V       Iso 1817 Liquid 2 - M15E (40°C)         V       Iso 1817 Liquid 3 - M3E7 (60°C)         V       Iso 1817 Liquid 3 - M3E7 (60°C	-	
Sodium Hydroxide solution (35% by mass) (23°C)         Sodium Hydroxide solution (10% by mass) (23°C)         Amonium Hydroxide solution (10% by mass) (23°C)         Acchols <ul> <li>Isopropyl alcohol (23°C)</li> <li>Kethanol (23°C)</li> <li>Ethanol (23°C)</li> </ul> Y       ncHexane (23°C)         Y       rolevane (23°C)         Y       Acctore (23°C)         Y       rolevane (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       SAE 10W40 multigrade motor oil (23°C)         Y       SAE 10W40 multigrade motor oil (10°C)         SAE 80/90 hypoid-gear oil (130°C)         Y       Iso 1817 Liquid 1 - E5 (60°C)         Y       Iso 1817 Liquid 2 - M15E4 (60°C)         Y       Iso 1817 Liquid 3 - M3E7 (60°C)         Y       Iso 1817 Liquid 3 - M3E7 (60°C) <th>- <u>Č</u>-</th> <th></th>	- <u>Č</u> -	
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Sodium Hydroxide solution (35% by mass) (23°C)         Sodium Hydroxide solution (10% by mass) (23°C)         Amonium Hydroxide solution (10% by mass) (23°C)         Acchols <ul> <li>Isopropyl alcohol (23°C)</li> <li>Kethanol (23°C)</li> <li>Ethanol (23°C)</li> </ul> Y       ncHexane (23°C)         Y       rolevane (23°C)         Y       Acctore (23°C)         Y       rolevane (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       SAE 10W40 multigrade motor oil (23°C)         Y       SAE 10W40 multigrade motor oil (10°C)         SAE 80/90 hypoid-gear oil (130°C)         Y       Iso 1817 Liquid 1 - E5 (60°C)         Y       Iso 1817 Liquid 2 - M15E4 (60°C)         Y       Iso 1817 Liquid 3 - M3E7 (60°C)         Y       Iso 1817 Liquid 3 - M3E7 (60°C) <th>×.</th> <th></th>	×.	
Sodium Hydroxide solution (35% by mass) (23°C)         Sodium Hydroxide solution (10% by mass) (23°C)         Amonium Hydroxide solution (10% by mass) (23°C)         Acchols <ul> <li>Isopropyl alcohol (23°C)</li> <li>Kethanol (23°C)</li> <li>Ethanol (23°C)</li> </ul> Y       ncHexane (23°C)         Y       rolevane (23°C)         Y       Acctore (23°C)         Y       rolevane (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       SAE 10W40 multigrade motor oil (23°C)         Y       SAE 10W40 multigrade motor oil (10°C)         SAE 80/90 hypoid-gear oil (130°C)         Y       Iso 1817 Liquid 1 - E5 (60°C)         Y       Iso 1817 Liquid 2 - M15E4 (60°C)         Y       Iso 1817 Liquid 3 - M3E7 (60°C)         Y       Iso 1817 Liquid 3 - M3E7 (60°C) <th>×.</th> <th></th>	×.	
Sodium Hydroxide solution (35% by mass) (23°C)         Sodium Hydroxide solution (10% by mass) (23°C)         Amonium Hydroxide solution (10% by mass) (23°C)         Acchols <ul> <li>Isopropyl alcohol (23°C)</li> <li>Kethanol (23°C)</li> <li>Ethanol (23°C)</li> </ul> Y       ncHexane (23°C)         Y       rolevane (23°C)         Y       Acctore (23°C)         Y       rolevane (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       Acctore (23°C)         Y       SAE 10W40 multigrade motor oil (23°C)         Y       SAE 10W40 multigrade motor oil (10°C)         SAE 80/90 hypoid-gear oil (130°C)         Y       Iso 1817 Liquid 1 - E5 (60°C)         Y       Iso 1817 Liquid 2 - M15E4 (60°C)         Y       Iso 1817 Liquid 3 - M3E7 (60°C)         Y       Iso 1817 Liquid 3 - M3E7 (60°C) <th>×.</th> <th></th>	×.	
Sodium Hydroxide solution (35% by mass) (23°C)         Sodium Hydroxide solution (10% by mass) (23°C)         Ammonium Hydroxide solution (10% by mass) (23°C)         Antonium Hydroxide solution (10% by mass) (23°C)         Ammonium Hydroxide solution (10% by mass) (23°C)         Attendot (23°C)         ✓ Isopropyl alcohol (23°C)         Function         ✓ n-Hexane (23°C)         ✓ Toluene (23°C)         ✓ touene (23°C)         ✓ touene (23°C)         V         ✓ Acetone (23°C)         V         ✓ Acetone (23°C)         V         ✓ touene (23°C)         V         ✓ touene (23°C)         V         ✓ Acetone (23°C)         V         ✓ Acetone (23°C)         V         ✓ Acetone (23°C)         V         ✓ Acetone (23°C)         V         ✓ Sk 10W40 multigrade motor oil (23°C)         ✓ SAE 10W40 multigrade motor oil (23°C)         ✓ Isolating Oil (23°C)         ✓ Isolating Oil (23°C)         ✓ Isolating Oil (23°C)         ✓ SAE 10W40 multigrade motor oil (23°C)         ✓ SAE 10W40 multigrade motor oil (23°C)         ✓ Isolating Oil (23°C)	X	Chromic Acid solution (40% by mass) (23°C)
Sodium Hydroxide solution (1% by mass) (23°C)         Ammonium Hydroxide solution (10% by mass) (23°C)         Ammonium Hydroxide solution (10% by mass) (23°C)         Ammonium Hydroxide solution (23°C)         ✓       Isopropyl alcohol (23°C)         Hydrocarbons         ✓       n-Hexane (23°C)         ✓       Toluene (23°C)         Hydrocarbons         ✓       Toluene (23°C)         Herrat       ✓         ✓       Diethyl ether (23°C)         Kerones       ✓         ✓       Diethyl ether (23°C)         Kinerat oit       ✓         ✓       SAE 10W40 multigrade motor oil (33°C)         SAE 10W40 multigrade motor oil (13°C)       SAE 10W40 multigrade motor oil (13°C)         SAE 10W40 multigrade intor oil (13°C)       SAE 10W40 multigrade intor oil (13°C)         ✓       ISO 1817 Liquid 1 - E5 (60°C)         ✓       ISO 1817 Liquid 2 - M15E4 (60°C)         ✓       ISO 1817 Liquid 3 - M327 (60°C)         ✓       ISO 1817 Liq		
✓       Ammonium Hydroxide solution (10% by mass) (23°C)         ✓       Isopropyl alcohol (23°C)         ✓       Methanol (23°C)         ✓       Toluene (23°C)         ✓       Soctane (23°C)         ✓       Methanol (23°C)         ✓       Diethyl ether (23°C)         ✓       Mercal olfs         ✓       Diethyl ether (23°C)         ✓       SAE 10W40 multigrade motor oil (13°C)         ✓       SAE 10W40 multigrade motor oil (13°C)         ✓       SAE 10W40 multigrade motor oil (13°C)         ✓       Iso 1817 Liquid 1 - E5 (60°C)         ✓       Iso 1817 Liquid 1 - E5 (60°C)         ✓       Iso 1817 Liquid 1 - E5 (60°C)         ✓       Iso 1817 Liquid 1 - Mister (60°C)         ✓       Iso 1817 Liquid 2 - Mister (60°C)         ✓       Iso 1817 Liquid 4	- <u>Č</u> -	
Atcohols         ✓       Isopropyl alcohol (23°C)         ✓       Kethanol (23°C)         Yetrocarbons <ul> <li></li></ul>	- <u>Č</u> -	
<ul> <li>✓ Isopropyl alcohol (23°C)</li> <li>✓ Methanol (23°C)</li> <li>✓ Ethanol (23°C)</li> <li>✓ In-Hexane (23°C)</li> <li>✓ Tollene (23°C)</li> <li>✓ Tollene (23°C)</li> <li>✓ Acetone (23°C)</li> <li>✓ Acetone (23°C)</li> <li>✓ Acetone (23°C)</li> <li>✓ Diethyl ether (23°C)</li> <li>✓ Diethyl ether (23°C)</li> <li>✓ Merral oils</li> <li>✓ SAE 10W40 multigrade motor oil (23°C)</li> <li>× SAE 10W40 multigrade motor oil (130°C)</li> <li>× SAE 10W40 multigrade motor oil (130°C)</li> <li>× SAE 10W40 multigrade motor oil (130°C)</li> <li>× SAE 30/90 hypoid-gear oil (130°C)</li> <li>× Iso 1817 Liquid 1 - E5 (60°C)</li> <li>✓ Iso 1817 Liquid 1 - E5 (60°C)</li> <li>✓ So 1817 Liquid 2 - M15E4 (60°C)</li> <li>✓ So 1817 Liquid 3 - M3E7 (60°C)</li> <li>✓ So 1817 Liquid 4 - M15 (60°C)</li> <li>✓ So 1817 Liquid 4 - M15 (60°C)</li> <li>✓ Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>✓ Standard fuel without alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> <li>Page: 5 of 6</li> <li>To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.</li> </ul>	×	Ammonium Hydroxide solution (10% by mass) (23°C)
✓       Methanol (23°C)         Ethanol (23°C)         Hydrocarbons         ✓       n-Hexane (23°C)         ✓       Toluene (23°C)         ✓       Toluene (23°C)         Ketones          ✓       Acetone (23°C)         Ethers          ✓       Dithyl ether (23°C)         Mineral oils          ✓       SAE 10W40 multigrade motor oil (23°C)         SAE 10W40 multigrade motor oil (130°C)       SAE 80/90 hypoid-gear oil (130°C)         SAE 80/90 hypoid-gear oil (130°C)       Iso 1817 Liquid 1 - E5 (60°C)         ✓       ISO 1817 Liquid 1 - E5 (60°C)         ✓       ISO 1817 Liquid 4 - M15 (60°C)         ✓       ISO 1817 Li	Alcoho	
<ul> <li>✓ Ethanol (23°C)</li> <li>Hydrocarbons         <ul> <li>n-Hexane (23°C)</li> <li>✓ Toluene (23°C)</li> <li>✓ iso-Octane (23°C)</li> </ul> </li> <li>Ketones         <ul> <li>✓ Acetone (23°C)</li> </ul> </li> <li>Ethers         <ul> <li>✓ Diethyl ether (23°C)</li> </ul> </li> <li>Mineral oils         <ul> <li>✓ SAE 10W40 multigrade motor oil (23°C)</li> <li>SAE 10W40 multigrade motor oil (130°C)</li> <li>SAE 80/90 hypoid-gear oil (130°C)</li> <li>Insulating Oil (23°C)</li> </ul> </li> <li>Standard Fuels         <ul> <li>✓ ISO 1817 Liquid 1 - E5 (60°C)</li> <li>✓ ISO 1817 Liquid 2 - M15E4 (60°C)</li> <li>✓ ISO 1817 Liquid 3 - M3E7 (60°C)</li> <li>✓ Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>✓ Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> </ul> </li> <li>Revised: 2019/03-22         <ul> <li>Page: 5 of 6</li> <li>To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.</li> </ul></li></ul>	<b>V</b>	
Hydrocarbons         ✓       n-Hexane (23°C)         ✓       Toluene (23°C)         Ketones          ✓       Acetone (23°C)         Ethers          ✓       Diethyl ether (23°C)         Mineral oils          ✓       SAE 10W40 multigrade motor oil (23°C)         SAE 10W40 multigrade motor oil (130°C)       SAE 10W40 multigrade motor oil (130°C)         ✓       SAE 10W40 multigrade motor oil (130°C)         ✓       Iso 1817 Liquid 1 - E5 (60°C)         ✓       Iso 1817 Liquid 2 - M15E4 (60°C)         ✓       Iso 1817 Liquid 3 - M3E7 (60°C)         ✓       Iso 1817 Liquid 4 - M15 (60°C)		
<ul> <li>n-Hexane (23°C)</li> <li>Toluene (23°C)</li> <li>iso-Octane (23°C)</li> <li>iso-Octane (23°C)</li> </ul> Ketones ✓ Acetone (23°C) Ketones ✓ Diethyl ether (23°C) Kineral oils SAE 10W40 multigrade motor oil (23°C) SAE 10W40 multigrade motor oil (23°C) SAE 10W40 multigrade motor oil (130°C) SAE 80/90 hypoid-gear oil (130°C) Insulating 0il (23°C) Standard Fuels ✓ ISO 1817 Liquid 1 - E5 (60°C) ✓ ISO 1817 Liquid 2 - M15E4 (60°C) ✓ So 1817 Liquid 2 - M15E4 (60°C) ✓ Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C) ✓ Standard fuel without alcohol (pref. ISO 1817 Liquid 4) (23°C) Revised: 2019-03-22 Page: 5 of 6 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.		Ethanol (23°C)
✓       Toluene (23°C)         iso-Octane (23°C)         Ketones         ✓       Acetone (23°C)         Ethers         ✓       Diethyl ether (23°C)         Mineral oits         ✓       SAE 10W40 multigrade motor oil (23°C)         ✓       SAE 10W40 multigrade motor oil (130°C)         ✓       SAE 10W40 multigrade motor oil (130°C)         ✓       SAE 80/90 hypoid-gear oil (130°C)         ✓       Iso 1817 Liquid 1 - E5 (60°C)         ✓       Iso 1817 Liquid 2 - M15E4 (60°C)         ✓       Iso 1817 Liquid 4 - M15 (60°C)         ✓       Iso 1817 Liquid 4 - M15 (60°C)         ✓       Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)         ✓       Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)         Revised: 2019-03-22       Page: 5 of 6         To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.       Page: 5 of 6	Hydroc	arbons
<ul> <li>✓ iso-Octane (23°C)</li> <li>Ketones</li> <li>✓ Acetone (23°C)</li> <li>Ethers</li> <li>✓ Diethyl ether (23°C)</li> <li>Mineral oils</li> <li>✓ SAE 10W40 multigrade motor oil (23°C)</li> <li>SAE 10W40 multigrade motor oil (130°C)</li> <li>SAE 80/90 hypoid-gear oil (130°C)</li> <li>Insulating Oil (23°C)</li> <li>Standard Fuels</li> <li>✓ ISO 1817 Liquid 1 - E5 (60°C)</li> <li>✓ ISO 1817 Liquid 2 - M15E4 (60°C)</li> <li>✓ ISO 1817 Liquid 4 - M15 (60°C)</li> <li>✓ Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>✓ Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>✓ Standard fuel without alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> <li>Revised: 2019-03-22</li> <li>Page: 5 of 6</li> <li>To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.</li> </ul>		n-Hexane (23°C)
Ketones         ✓       Acetone (23°C)         Ethers         ✓       Diethyl ether (23°C)         Mineral oils         ✓       SAE 10W40 multigrade motor oil (23°C)         SAE 10W40 multigrade motor oil (130°C)         SAE 80/90 hypoid-gear oil (130°C)         Insulating 0il (23°C)         Standard Fuels         ✓       ISO 1817 Liquid 1 - E5 (60°C)         ✓       ISO 1817 Liquid 2 - M15E4 (60°C)         ✓       ISO 1817 Liquid 3 - M3E7 (60°C)         ✓       ISO 1817 Liquid 4 - M15 (60°C)         ✓       ISO 1817 Liquid 4 - M15 (60°C)         ✓       ISO 1817 Liquid 4 - M15 (60°C)         ✓       Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)         ✓       Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)         ✓       Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)         ✓       Standard fuel without alcohol (pref. ISO 1817 Liquid 4) (23°C)         Revised: 2019-03-22       Page: 5 of 6         To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.		Toluene (23°C)
✓       Acetone (23°C)         Ethers       ✓         ✓       Diethyl ether (23°C)         Mineral oils       ✓         ✓       SAE 10W40 multigrade motor oil (23°C)         ✓       SAE 10W40 multigrade motor oil (130°C)         ✓       SAE 80/90 hypoid-gear oil (130°C)         ✓       Iso 1817 Liquid 1 - E5 (60°C)         ✓       ISO 1817 Liquid 2 - M15E4 (60°C)         ✓       ISO 1817 Liquid 3 - M3E7 (60°C)         ✓       ISO 1817 Liquid 4 - M15 (60°C)         ✓       ISO 1817 Liquid 4 - M15 (60°C)         ✓       ISO 1817 Liquid 4 - M15 (60°C)         ✓       Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)         ✓       Standard fuel without alcohol (pref. ISO 1817 Liquid 4) (23°C)         Revised: 2019-03-22       Page: 5 of 6         To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.		iso-Octane (23°C)
Ethers         ✓       Diethyl ether (23°C)         Mineral oils       ✓         ✓       SAE 10W40 multigrade motor oil (23°C)         ✓       SAE 10W40 multigrade motor oil (130°C)         ✓       SAE 80/90 hypoid-gear oil (130°C)         ✓       ISO 1817 Liquid 1 - E5 (60°C)         ✓       ISO 1817 Liquid 2 - M15E4 (60°C)         ✓       ISO 1817 Liquid 3 - M3E7 (60°C)         ✓       ISO 1817 Liquid 4 - M15 (60°C)         ✓       ISO 1817 Liquid 4 - M15 (60°C)         ✓       Standard fuel         ✓       Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)         ✓       Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)	Ketone	S
<ul> <li>Diethyl ether (23°C)</li> <li>Mineral oils</li> <li>SAE 10W40 multigrade motor oil (23°C)</li> <li>SAE 10W40 multigrade motor oil (130°C)</li> <li>SAE 80/90 hypoid-gear oil (130°C)</li> <li>Insulating Oil (23°C)</li> <li>Standard Fuels</li> <li>Son 1817 Liquid 1 - E5 (60°C)</li> <li>ISO 1817 Liquid 2 - M15E4 (60°C)</li> <li>ISO 1817 Liquid 3 - M3E7 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> <li>Revised: 2019-03-22</li> <li>Page: 5 of 6</li> <li>To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.</li> </ul>	$\checkmark$	Acetone (23°C)
Mineral oils         ✓       SAE 10W40 multigrade motor oil (23°C)         SAE 10W40 multigrade motor oil (130°C)         SAE 80/90 hypoid-gear oil (130°C)         Issulating Oil (23°C)         Standard Fuels         ✓       ISO 1817 Liquid 1 - E5 (60°C)         ✓       ISO 1817 Liquid 2 - M15E4 (60°C)         ✓       ISO 1817 Liquid 3 - M3E7 (60°C)         ✓       ISO 1817 Liquid 4 - M15 (50°C)         ✓       Standard fuel with alcohol (pref. ISO 1817 Liquid C) (23°C)         ✓       Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)         Revised: 2019-03-22       Page: 5 of 6         To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	Ethers	
SAE 10W40 multigrade motor oil (23°C)         SAE 10W40 multigrade motor oil (130°C)         SAE 80/90 hypoid-gear oil (130°C)         Insulating Oil (23°C)         Standard Fuels         ISO 1817 Liquid 1 - E5 (60°C)         ISO 1817 Liquid 2 - M15E4 (60°C)         ISO 1817 Liquid 3 - M3E7 (60°C)         ISO 1817 Liquid 4 - M15 (60°C)         ISO 1817 Liquid 4 - M15 (60°C)         ISO 1817 Liquid 4 - M15 (60°C)         Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)         Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)         Revised: 2019-03-22         Page: 5 of 6         To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	$\checkmark$	Diethyl ether (23°C)
<ul> <li>SAE 10W40 multigrade motor oil (130°C)</li> <li>SAE 80/90 hypoid-gear oil (130°C)</li> <li>Insulating Oil (23°C)</li> </ul> Standard Fuels <ul> <li>SO 1817 Liquid 1 - E5 (60°C)</li> <li>ISO 1817 Liquid 2 - M15E4 (60°C)</li> <li>ISO 1817 Liquid 3 - M3E7 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> </ul> Revised: 2019-03-22 Page: 5 of 6 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	Mineral	oils
<ul> <li>SAE 80/90 hypoid-gear oil (130°C) Insulating Oil (23°C)</li> <li>Standard Fuels</li> <li>ISO 1817 Liquid 1 - E5 (60°C)</li> <li>ISO 1817 Liquid 2 - M15E4 (60°C)</li> <li>ISO 1817 Liquid 3 - M3E7 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> </ul> Revised: 2019-03-22 Page: 5 of 6 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	1	SAE 10W40 multigrade motor oil (23°C)
<ul> <li>Insulating Oil (23°C)</li> <li>Standard Fuels <ul> <li>ISO 1817 Liquid 1 - E5 (60°C)</li> <li>ISO 1817 Liquid 2 - M15E4 (60°C)</li> <li>ISO 1817 Liquid 3 - M3E7 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> </ul> </li> <li>Revised: 2019-03-22 Page: 5 of 6</li> <li>To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.</li> </ul>	X	SAE 10W40 multigrade motor oil (130°C)
Standard Fuels         ISO 1817 Liquid 1 - E5 (60°C)         ISO 1817 Liquid 2 - M15E4 (60°C)         ISO 1817 Liquid 3 - M3E7 (60°C)         ISO 1817 Liquid 4 - M15 (60°C)         ISO 1817 Liquid 4 - M15 (60°C)         Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)         Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)         Revised: 2019-03-22         Page: 5 of 6         To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	X	SAE 80/90 hypoid-gear oil (130°C)
<ul> <li>ISO 1817 Liquid 1 - E5 (60°C)</li> <li>ISO 1817 Liquid 2 - M15E4 (60°C)</li> <li>ISO 1817 Liquid 3 - M3E7 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> </ul> Revised: 2019-03-22 Page: 5 of 6 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	1	Insulating Oil (23°C)
<ul> <li>ISO 1817 Liquid 2 - M15E4 (60°C)</li> <li>ISO 1817 Liquid 3 - M3E7 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> </ul> Revised: 2019-03-22 Page: 5 of 6 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	Standa	rd Fuels
<ul> <li>ISO 1817 Liquid 3 - M3E7 (60°C)</li> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> </ul> Revised: 2019-03-22 Page: 5 of 6 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	1	ISO 1817 Liquid 1 - E5 (60°C)
<ul> <li>ISO 1817 Liquid 4 - M15 (60°C)</li> <li>Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)</li> <li>Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)</li> </ul> Revised: 2019-03-22 Page: 5 of 6 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	1	ISO 1817 Liquid 2 - M15E4 (60°C)
Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C) Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C) Revised: 2019-03-22 Page: 5 of 6 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	1	ISO 1817 Liquid 3 - M3E7 (60°C)
Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C) Revised: 2019-03-22 Page: 5 of 6 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	<ul> <li>Image: A second s</li></ul>	ISO 1817 Liquid 4 - M15 (60°C)
Revised: 2019-03-22       Page: 5 of 6         To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	1	Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)
To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.	$\checkmark$	Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)
To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.		

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OU POND.

# DuPont™ Delrin® 100AF ACETAL RESIN

Diesel fuel (pref. ISO 1817 Liquid F) (23°C) Diesel fuel (pref. ISO 1817 Liquid F) (90°C)

Diesel fuel (pref. ISO 1817 Liquid F) (>90°C)

### Salt solutions

- Sodium Chloride solution (10% by mass) (23°C)
- Sodium Hypochlorite solution (10% by mass) (23°C)
- Sodium Carbonate solution (20% by mass) (23°C)
- Sodium Carbonate solution (2% by mass) (23°C)
- Zinc Chloride solution (50% by mass) (23°C)

### Othe

<ul> <li>Image: A second s</li></ul>	Ethyl Acetate (23°C)
X	Hydrogen peroxide (23°C)
X	DOT No. 4 Brake fluid (130°C)
X	Ethylene Glycol (50% by mass) in water (108°C)
1	1% nonylphenoxy-polyethyleneoxy ethanol in water (23 $^{\circ}$ C)
$\checkmark$	50% Oleic acid + 50% Olive Oil (23°C)
$\checkmark$	Water (23°C)
X	Water (90°C)
X	Phenol solution (5% by mass) (23°C)

### Symbols used:

possibly resistant

Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

### Xnot recommended - see explanation

Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents. Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, discuss with your DuPont customer representative and read Medical Caution H-50103-5.

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