

Cycloloy* Resin MC5220

Europe-Africa-Middle East: COMMERCIAL

CYCOLOY MC5220 is a 20% glass reinforced PC+ABS blend for injection moulding purposes.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield, 5 mm/min	107	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	113	MPa	ISO 178
Flexural Modulus, 2 mm/min	5880	MPa	ISO 178
THERMAL	Value	Unit	Standard
CTE, 23°C to 60°C, flow	3.E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.E-05	1/°C	ISO 11359-2
PHYSICAL	Value	Unit	Standard
Mold Shrinkage on Tensile Bar, flow (2)	0.2 - 0.4	%	SABIC Method
Density	1.33	g/cm ³	ISO 1183
Melt Volume Rate, MVR at 260°C/5.0 kg	27	cm ³ /10 min	ISO 1133
ELECTRICAL	Value	Unit	Standard
Volume Resistivity	1.E+16	Ohm-cm	IEC 60093
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Recognized, 94V-0 Flame Class Rating (3)	1.5	mm	UL 94
UL Recognized, 94-5VA Rating (3)	2.5	mm	UL 94

Source GMD, last updated:07/12/2001

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	100 - 110	°C
Drying Time	2 - 4	hrs
Melt Temperature	240 - 280	°C
Mold Temperature	50 - 80	°C

Source GMD, last updated:07/12/2001

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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