

Covestro Makrolon® GF9002* Polycarbonate, 10% Glass Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

ISO 7391-PC,MFR,(,,)-18-9,GF10 Formerly Makrolon DP1-1889MVR (300 °C/1.2 kg) 15 cm³/10 min 10 % Glass fiber reinforced Chlorine- and bromine-free flame retardant UL 94V-0/1.2 mm UL 94 5VA/2.8 mm (Bayer measurement) Low viscosity Easy release Injection molding - Melt temperature 310 - 330 °C Available in opaque colors only Electrical/electronic Housing parts with low wall thickness As of 1 September 2015, Bayer Material Science was separated from Bayer AG and officially adopted its new name – Covestro.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Makrolon-GF9002-Polycarbonate-10-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
	1.08 g/cc @Temperature 300 °C	0.0390 lb/in ³ @Temperature 572 °F	Melt
Water Absorption	0.26 %	0.26 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.10 %	0.10 %	Similar to ISO 62
Melt Flow	16 g/10 min	16 g/10 min	ISO 1133
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	ISO 527-1/-2
Elongation at Break	10 %	10 %	ISO 527-1/-2
Tensile Modulus	3.80 GPa	551 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.60 J/g-°C	0.382 BTU/lb-°F	Melt
Thermal Conductivity	0.191 W/m-K	1.33 BTU-in/hr-ft ² -°F	Melt
Vicat Softening Point	143 °C	289 °F	50°C/h 50N; ISO 306
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.20 mm	@Thickness 0.0472 in	

Thermal Properties	^{SVA} Metric	^{SVA} English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	IEC 60093-11-20
Oxygen Index	35 %	35 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Comparative Tracking Index	175 V	175 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	300 °C	572 °F	Injection Molding; ISO 294
	310 - 330 °C	590 - 626 °F	
Mold Temperature	80.0 - 130 °C	176 - 266 °F	
	110 °C	230 °F	Injection Molding; ISO 10724
Ejection Temperature	140 °C	284 °F	
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	
Eff. thermal diffusivity (m ² /s)	1.11E-07	
Feature	Release agent	
Form	Pellets	
Process	Injection Molding	

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