

Covestro Makrolon® SF805 Polycarbonate, 5% Glass Filled

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

Material Notes:

MVR (300 °C/1.2 kg) 7.0 cm³/10 min Structural foam 5 % Glass fiber reinforced Normal fiber Chlorine- and bromine-free flame retardant High viscosity Easy release Injection molding Available in natural (opaque) and opaque colors In combination with an appropriate blowing agent for the production of structural foam moldings 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-SF805-Polycarbonate-5-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.10 %	0.10 %	Similar to ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ISO 294-4,2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294-4,2577
Melt Flow	9.0 g/10 min @Load 1.20 kg, Temperature 300 °C	9.0 g/10 min @Load 2.65 lb, Temperature 572 °F	estimated from MVR using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	ISO 527-1/-2
Elongation at Break	20 %	20 %	ISO 527-1/-2
Tensile Modulus	2.90 GPa	421 ksi	ISO 527-1/-2
Impact	4300	4300	Puncture - maximum force (N); ISO 6603-2
	4900 @Temperature -30.0 °C	4900 @Temperature -22.0 °F	Puncture - maximum force (N); ISO 6603-2
Puncture Energy	30.0 J	22.1 ft-lb	ISO 6603-2
	25.0 J @Temperature -30.0 °C	18.4 ft-lb @Temperature -22.0 °F	ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.0 µm/m-°C	30.6 µin/in-°F	ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
<i>CTE, linear, transverse to Flow</i>	<i>10⁻⁶ mm/m-°C</i>	<i>50⁻⁶ in/in-°F</i>	<i>ISO 11359-1/-2</i>
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	130 °C	266 °F	ISO 75-1/-2
Vicat Softening Point	143 °C	289 °F	50°C/h 50N; ISO 306
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	IEC 60695-11-10
Oxygen Index	32 %	32 %	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
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	IEC 60250
	3.1 @Frequency 100 Hz	3.1 @Frequency 100 Hz	IEC 60250
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 60243-1
Dissipation Factor	0.00080 @Frequency 100 Hz	0.00080 @Frequency 100 Hz	IEC 60250
	0.0090 @Frequency 1.00e+6 Hz	0.0090 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	175 V	175 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	300 °C	572 °F	Injection Molding; ISO 294
Mold Temperature	110 °C	230 °F	Injection Molding; ISO 10724
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	Asia Pacific	

Descriptive Properties	Europe Value	Comments
	India	
	Near East/Africa	
	South and Central America	
Feature	Release agent	
Form	Pellets	
Process	Injection Molding	

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