

Covestro Makrolon® DP1-1887* Polycarbonate, 10% Glass Filled

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

Material Notes:

ISO 7391-PC,MR,(,,)-18-9,GF10Developmental productMVR (300 °C/1.2 kg) 16 cm3/10 min10 % Glass fiber reinforcedMilled fiberLow viscosityEasy releasegood surface qualityInjection molding - Melt temperature 310 - 330 °CAvailable in intense black colors onlyPrecision parts in camerasAs of 1 September 2015, Bayer MaterialScience 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-DP1-1887-Polycarbonate-10-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in³	ISO 1183
	1.08 g/cc	0.0390 lb/in³	Melt
	@Temperature 300 °C	@Temperature 572 °F	
Moisture Absorption at Equilibrium	0.10 %	0.10 %	Similar to ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ISO 294-4,2577
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ISO 294-4,2577
Melt Flow	17 g/10 min	17 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	15 %	15 %	ISO 527-1/-2
Tensile Modulus	3.00 GPa	435 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C	19.4 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	55.0 µm/m-°C	30.6 µin/in-°F	ISO 11359-1/-2
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-ft²-°F	Melt
Vicat Softening Point	143 °C	289 °F	50°C/h 50N; ISO 306
	V-2	V-2	

Thermal Properties	Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	Comments
Oxygen Index	28 %	28 %	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 Strength	36.0 kV/mm	914 kV/in	IEC 60243-1
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	
	India	
	Near East/Africa	
	North America	
	South and Central America	
Eff. thermal diffusivity (m²/s)	1.11E-07	
Feature	Release agent	
Form	Pellets	
Process	Injection Molding	

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