

## Covestro Makrolon® DP1-1888\* Polycarbonate, 20% Glass Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

### Material Notes:

ISO 7391-PC,MR,(,)-09-3,GF20Developmental productMVR (300 °C/1.2 kg) 10 cm3/10 min20 % Glass fiber reinforcedMilled fiberMedium 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-DP1-1888-Polycarbonate-20-Glass-Filled.php](http://www.lookpolymers.com/polymer_Covestro-Makrolon-DP1-1888-Polycarbonate-20-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ISO 1183
	1.14 g/cc @Temperature 300 °C	0.0412 lb/in <sup>3</sup> @Temperature 572 °F	Melt
Moisture Absorption at Equilibrium	0.10 %	0.10 %	Similar to ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ISO 294-4,2577
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ISO 294-4,2577
Melt Flow	11 g/10 min	11 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	55.0 MPa	7980 psi	ISO 527-1/-2
Elongation at Break	5.0 %	5.0 %	ISO 527-1/-2
Tensile Modulus	4.10 GPa	595 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 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	1.50 J/g-°C	0.359 BTU/lb-°F	Melt
Thermal Conductivity	0.211 W/m-K	1.46 BTU-in/hr-ft <sup>2</sup> -°F	Melt
Vicat Softening Point	144 °C	291 °F	50°C/h 50N; ISO 306
	V-2	V-2	

Thermal Properties	Metric @ Thickness 2.00 mm	English @ Thickness 0.0787 in	Flammability UL 94 IEC 60695-11-10 Comments
Oxygen Index	30 %	30 %	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 (m <sup>2</sup> /s)	1.23E-07	
Feature	Release agent	
Form	Pellets	
Process	Injection Molding	

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