

## Covestro Makrolon® GF8002\* Polycarbonate, 15% Glass Filled

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

### Material Notes:

ISO 7391-PC,MR,(,,)-09-9,GF15Formerly Makrolon DP1-1882MVR (300 °C/1.2 kg) 9.5 cm<sup>3</sup>/10 min15 % Glass fiber reinforcedMedium viscosityEasy releaseInjection molding - Melt temperature 310 - 330 °CAvailable in opaque colors onlyPreprocessingMax. Water content

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Covestro-Makrolon-GF8002-Polycarbonate-15-Glass-Filled.php](http://www.lookpolymers.com/polymer_Covestro-Makrolon-GF8002-Polycarbonate-15-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in <sup>3</sup>	ISO 1183
	1.10 g/cc	0.0397 lb/in <sup>3</sup>	Melt
	@Temperature 300 °C	@Temperature 572 °F	
Melt Flow	10 g/10 min	10 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	8.5 %	8.5 %	ISO 527-1/-2
Tensile Modulus	4.50 GPa	653 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.55 J/g-°C	0.370 BTU/lb-°F	Melt
Thermal Conductivity	0.198 W/m-K	1.37 BTU-in/hr-ft <sup>2</sup> -°F	Melt
Vicat Softening Point	144 °C	291 °F	50°C/h 50N; ISO 306

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

Processing Properties Descriptive Properties	Metric	English Value	Comments Comments
Availability		Asia Pacific	
		Europe	
		Near East/Africa	
		South and Central America	
Eff. thermal diffusivity (m <sup>2</sup> /s)		1.17E-07	
Feature		Release agent	
Form		Pellets	
Process		Injection Molding	

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