

Covestro Makrolon® 8035 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

Material Notes:

High viscosity extrusion and injection molding grade with 30% short glass fibers and easy mold release, low anisotropy, for stiff moldings requiring good dimensional stability. Information provided by Bayer. As 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-8035-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	
Water Absorption	0.28 %	0.28 %	Saturation in water
Moisture Absorption at Equilibrium	0.11 %	0.11 %	Equilibrium at 50% RH
Water Absorption at Saturation	0.28 %	0.28 %	
Melt Flow	4.0 g/10 min @Load 1.20 kg, Temperature 300 °C	4.0 g/10 min @Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	70.0 MPa	10200 psi	
Elongation at Break	3.5 %	3.5 %	
Tensile Modulus	5.80 GPa	841 ksi	
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	5900 MPa	856000 psi	
Tensile Creep Modulus, 1000 hours	5400 MPa	783000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C @Temperature 20.0 °C	16.7 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	
Vicat Softening Point	149 °C	300 °F	

Thermal Properties mp, Tg	Metric	English	Comments
Flammability, UL94	V-1	V-1	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	32 %	32 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	
Surface Resistance	1.00×10^{14} ohm	1.00×10^{14} ohm	
Dielectric Constant	3.3	3.3	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.3	3.3	
	@Frequency 1×10^6 Hz	@Frequency 1×10^6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.0010	0.0010	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0090	0.0090	
	@Frequency 1×10^6 Hz	@Frequency 1×10^6 Hz	
Comparative Tracking Index	175 V	175 V	

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