

Covestro Makrolon® 8025 Polycarbonate

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

Material Notes:

High viscosity extrusion and injection molding grade with 20% 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 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-8025-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	
Water Absorption	0.29 %	0.29 %	Saturation in water
Moisture Absorption at Equilibrium	0.12 %	0.12 %	Equilibrium at 50% RH
Water Absorption at Saturation	0.29 %	0.29 %	
Melt Flow	5.0 g/10 min	5.0 g/10 min	
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	60.0 MPa	8700 psi	
Elongation at Break	4.0 %	4.0 %	
Tensile Modulus	4.00 GPa	580 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	5600 MPa	812000 psi	
Tensile Creep Modulus, 1000 hours	4800 MPa	696000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	
	@Temperature 20.0 °C	@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-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	30 %	30 %	

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	3.2	3.2	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.2	3.2	
	@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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