

Covestro Makrolon® 8345 Polycarbonate

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

Material Notes:

High viscosity injection molding and extrusion grade with 35% standard glass fibers and easy mold release, stiff flow, especially high strength and stiffness. 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-8345-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	
Water Absorption	0.27 %	0.27 %	Saturation in water
Moisture Absorption at Equilibrium	0.11 %	0.11 %	Equilibrium at 50% RH
Water Absorption at Saturation	0.27 %	0.27 %	
Melt Flow	3.0 g/10 min @Load 1.20 kg, Temperature 300 °C	3.0 g/10 min @Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	135 MPa	19600 psi	
Elongation at Break	3.5 %	3.5 %	
Tensile Modulus	10.5 GPa	1520 ksi	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 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	25.0 μm/m-°C @Temperature 20.0 °C	13.9 μin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °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	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 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	3.6	3.6	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.8	3.8	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.0010	0.0010	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0090	0.0090	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	175 V	175 V	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China