

Covestro Makroblend® UT-640 G Polycarbonate + Polyester Blend

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP

Material Notes:

Key Features: Contains Filler High impact or high impact modified Light stabilized or stable to light Suitable processing methods: Injection molding Information provided by Bayer Polymers. 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-Makroblend-UT-640-G-Polycarbonate-Polyester-Blend.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	
Water Absorption	0.23 %	0.23 %	
Moisture Absorption at Equilibrium	0.080 %	0.080 %	23°C/50% R.H.
Melt Flow	12 g/10 min @Load 5.00 kg, Temperature 265 °C	12 g/10 min @Load 11.0 lb, Temperature 509 °F	cm ³ /10 min.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	
Elongation at Break	5.0 %	5.0 %	Nominal
Elongation at Yield	5.0 %	5.0 %	
Tensile Modulus	3.90 GPa	566 ksi	

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	
CTE, linear, Transverse 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)	179 °C	354 °F	
Deflection Temperature at 1.8 MPa (264 psi)	122 °C	252 °F	
Flammability, UL94	HB	HB	UL Recognized
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Thermal Properties	Metric	English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	
Dielectric Constant	3.3	3.3	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.3	3.3	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00090	0.00090	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	175 V	175 V	

Processing Properties	Metric	English	Comments
Melt Temperature	270 °C	518 °F	Injection Molding
Mold Temperature	82.0 °C	180 °F	Injection Molding
Injection Pressure	60.0 MPa	8700 psi	

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