

Covestro Makroblend® UT-1018 Polycarbonate + Polyester Blend

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

Material Notes:

Key Features: Unfilled High impact or high impact modified Light stabilized or stable to light Suitable processing methods: Injection molding Sheet extrusion 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-1018-Polycarbonate-Polyester-Blend.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	
Water Absorption	0.30 %	0.30 %	
Moisture Absorption at Equilibrium	0.16 %	0.16 %	23°C/50% R.H.
Melt Flow	9.0 g/10 min @Load 5.00 kg, Temperature 265 °C	9.0 g/10 min @Load 11.0 lb, Temperature 509 °F	cm ³ /10 min.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	5.0 %	5.0 %	
Tensile Modulus	2.10 GPa	305 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C @Temperature 20.0 °C	40.0 µin/in-°F @Temperature 68.0 °F	
CTE, linear, Transverse to Flow	72.0 µm/m-°C @Temperature 20.0 °C	40.0 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL Recognized

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{13}$ ohm-cm	$\geq 1.00 \times 10^{13}$ ohm-cm	
Dielectric Constant	3.06	3.06	
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.06	3.06	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	28.0 kV/mm	711 kV/in	
Dissipation Factor	0.014	0.014	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	179 V	179 V	

Processing Properties	Metric	English	Comments
Melt Temperature	270 °C	518 °F	Injection Molding
Mold Temperature	65.0 °C	149 °F	Injection Molding
Injection Pressure	60.0 MPa	8700 psi	

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