

Covestro Bayblend® T 85 MN Polycarbonate/ABS Blend

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

High impact and notched impact strength, little risk of brittle fracture, high dimensional accuracy. Applications: Automotive components, electrical engineering. 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-Bayblend-T-85-MN-PolycarbonateABS-Blend.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	
Water Absorption	0.70 %	0.70 %	Saturation in water
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Equilibrium at 50% RH
Water Absorption at Saturation	0.70 %	0.70 %	
Melt Flow	12 g/10 min @Load 5.00 kg, Temperature 260 °C	12 g/10 min @Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	5.0 %	5.0 %	
Tensile Modulus	2.20 GPa	319 ksi	
Tensile Creep Modulus, 1 hour	2000 MPa	290000 psi	
Tensile Creep Modulus, 1000 hours	1700 MPa	247000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	85.0 µm/m-°C	47.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	110 °C Metric	230 °F English	Comments
Vicat Softening Point	129 °C	264 °F	
UL RTI, Electrical	60.0 °C @Thickness 1.50 mm	140 °F @Thickness 0.0591 in	
UL RTI, Mechanical with Impact	60.0 °C @Thickness 1.50 mm	140 °F @Thickness 0.0591 in	
UL RTI, Mechanical without Impact	60.0 °C @Thickness 1.50 mm	140 °F @Thickness 0.0591 in	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Oxygen Index	24 %	24 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	3.0 @Frequency 100 Hz	3.0 @Frequency 100 Hz	
	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	
Dielectric Strength	24.0 kV/mm	610 kV/in	
Dissipation Factor	0.0040 @Frequency 100 Hz	0.0040 @Frequency 100 Hz	
	0.0080 @Frequency 1e+6 Hz	0.0080 @Frequency 1e+6 Hz	
Arc Resistance	120 - 180 sec @Thickness 3.00 mm	120 - 180 sec @Thickness 0.118 in	UL Rating PLC 5 (120-180 sec)
Comparative Tracking Index	250 V	250 V	
Hot Wire Ignition, HWI	15 - 30 sec @Thickness 3.00 mm	15 - 30 sec @Thickness 0.118 in	UL Rating PLC 3 (15-30 sec)
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL Rating PLC 0 (>120 arcs)

Electrical Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
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