

Covestro Bayblend® T 44 Polycarbonate/ABS Blend

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

Material Notes:

Easier flowing than BAYBLEND T 45 MN. 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-44-PolycarbonateABS-Blend.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 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	17 g/10 min	17 g/10 min	
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	3.0 %	3.0 %	
Tensile Modulus	2.00 GPa	290 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	95.0 µm/m-°C	52.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	
Vicat Softening Point	110 °C	230 °F	
	60.0 °C	140 °F	

UL RTI Electrical Thermal Properties	Metric @Thickness 1.50 mm	English @Thickness 0.0591 in	Comments
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	21 %	21 %	

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	2.0 @Frequency 100 Hz	2.0 @Frequency 100 Hz	
	2.9 @Frequency 1e+6 Hz	2.9 @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	
	0.0070 @Frequency 1e+6 Hz	0.0070 @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	500 V	500 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 @Thickness 1.50 mm	>= 120 arcs @Thickness 0.0591 in	UL Rating PLC 0 (>120 arcs)

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