

Covestro Bayblend® T 45 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, good platable. 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-45-MN-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	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	45.0 MPa	6530 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	4.0 %	4.0 %	
Tensile Modulus	2.00 GPa	290 ksi	
Tensile Creep Modulus, 1 hour	1800 MPa	261000 psi	
Tensile Creep Modulus, 1000 hours	1500 MPa	218000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	
CTE, linear, Transverse to Flow	95.0 µm/m-°C @Temperature 20.0 °C	52.8 µin/in-°F @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	

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	60.0 °C	140 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical with Impact	60.0 °C	140 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical without Impact	60.0 °C	140 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@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	2.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	24.0 kV/mm	610 kV/in	
Dissipation Factor	0.0040	0.0040	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0070	0.0070	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	120 - 180 sec	120 - 180 sec	UL Rating PLC 5 (120-180 sec)
	@Thickness 3.00 mm	@Thickness 0.118 in	
Comparative Tracking Index	500 V	500 V	
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL Rating PLC 3 (15-30 sec)
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL Rating PLC 0 (>120 arcs)
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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