

Covestro Bayblend® T65 HI PC/ABS Blend

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

Material Notes:

Main characteristics:• High toughness even at low temperatures• High dimensional accuracy and stability• Good paintability• Good flowability
Grade characteristics:• Improve low temperature impact strength and chemical resistance for automotive parts•

Extrusion/extrusion blow molding• Electroplating applications
As of 1 September 2015, Bayer MaterialScience 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-T65-HI-PCABS-Blend.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183-1
Moisture Absorption at Equilibrium	0.20 %	0.20 %	ISO 62, 50% RH
Water Absorption at Saturation	0.70 %	0.70 %	ISO 62
Viscosity	300000 cP @Shear Rate 1000 1/s, Temperature 260 °C	300000 cP @Shear Rate 1000 1/s, Temperature 500 °F	melt viscosity; b.o. ISO 11443-A
Linear Mold Shrinkage, Flow	0.0065 - 0.0085 cm/cm @Thickness 3.00 mm	0.0065 - 0.0085 in/in @Thickness 0.118 in	150x105x3mm; b.o. ISO 2577
Linear Mold Shrinkage, Transverse	0.0065 - 0.0085 cm/cm @Thickness 3.00 mm	0.0065 - 0.0085 in/in @Thickness 0.118 in	150x105x3mm; b.o. ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	48.0 MPa	6960 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 50 %	>= 50 %	50 mm/min; b.o. ISO 527-1,-2
Elongation at Yield	4.5 %	4.5 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527-1,-2
Izod Impact, Notched (ISO)	38.0 kJ/m ² @Temperature -30.0 °C	18.1 ft-lb/in ² @Temperature -22.0 °F	ISO 180-A
	48.0 kJ/m ² @Temperature 23.0 °C	22.8 ft-lb/in ² @Temperature 73.4 °F	ISO 180-A
	NB	NB	

Izod Impact, Unnotched (ISO)		English		ISO 180-U
Mechanical Properties	Metric			Comments
	NB	NB		ISO 180-U
	@Temperature 23.0 °C	@Temperature 73.4 °F		
	@Temperature -30.0 °C	@Temperature -22.0 °F		

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	95.0 µm/m-°C	52.8 µin/in-°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	99.0 °C	210 °F	ISO 75-1,-2
Vicat Softening Point	118 °C	244 °F	50°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	120 °C	248 °F	120°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 0.850 mm	@Thickness 0.0335 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.0	3.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.0025	0.0025	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	0.0085 Metric	0.0085 English	Comments IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	275 V	275 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	Injection molding; ISO 294
Mold Temperature	80.0 °C	176 °F	Injection molding; ISO 294
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

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