

Covestro Bayblend® T80 XG 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:• Injection molding• Optimized surface quality for metallization
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-T80-XG-PCABS-Blend.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 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	190000 cP @Shear Rate 1000 1/s, Temperature 260 °C	190000 cP @Shear Rate 1000 1/s, Temperature 500 °F	melt viscosity; b.o. ISO 11443-A
Linear Mold Shrinkage, Flow	0.0055 - 0.0075 cm/cm @Thickness 3.00 mm	0.0055 - 0.0075 in/in @Thickness 0.118 in	150x105x3mm; b.o. ISO 2577
Linear Mold Shrinkage, Transverse	0.0055 - 0.0075 cm/cm @Thickness 3.00 mm	0.0055 - 0.0075 in/in @Thickness 0.118 in	150x105x3mm; b.o. ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	62.0 MPa	8990 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	4.7 %	4.7 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.50 GPa	363 ksi	1 mm/min; ISO 527-1,-2
Izod Impact, Notched (ISO)	14.0 kJ/m ² @Temperature -30.0 °C	6.66 ft-lb/in ² @Temperature -22.0 °F	ISO 180-A
	42.0 kJ/m ² @Temperature 23.0 °C	20.0 ft-lb/in ² @Temperature 73.4 °F	ISO 180-A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180-U

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 55.0 °C	40.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 131 °F	ISO 11359-1,-2
CTE, linear, Transverse to Flow	72.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 55.0 °C	40.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 131 °F	ISO 11359-1,-2
Deflection Temperature at 0.46 MPa (66 psi)	127 °C	261 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	108 °C	226 °F	ISO 75-1,-2
Vicat Softening Point	128 °C @Load 5.10 kg	262 °F @Load 11.2 lb	50 $\text{°C}/\text{h}$; ISO 306
	130 °C @Load 5.10 kg	266 °F @Load 11.2 lb	120 $\text{°C}/\text{h}$; ISO 306
Flammability, UL94	HB @Thickness 0.850 mm	HB @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+17 ohm	1.00e+17 ohm	IEC 60093
Dielectric Strength	45.0 kV/mm @Thickness 1.00 mm	1140 kV/in @Thickness 0.0394 in	IEC 60243-1
Comparative Tracking Index	175 V	175 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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