

Covestro Bayblend® T50 BBS083 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• Good low temperature impact strength
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-T50-BBS083-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	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	46.0 MPa	6670 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	50.0 MPa	7250 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	2.10 GPa	305 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
	45.0 kJ/m ² @Temperature 23.0 °C	21.4 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
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 180-U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 µm/m-°C @Temperature 23.0 - 55.0 °C	47.2 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1,-2
CTE, linear, Transverse to Flow	85.0 µm/m-°C @Temperature 23.0 - 55.0 °C	47.2 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1,-2
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	113 °C @Load 5.10 kg	235 °F @Load 11.2 lb	50°C/h; ISO 306
	114 °C @Load 5.10 kg	237 °F @Load 11.2 lb	120°C/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 Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	IEC 60250
	3.1 @Frequency 100 Hz	3.1 @Frequency 100 Hz	IEC 60250
Dielectric Strength	40.0 kV/mm @Thickness 1.00 mm	1020 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.0025 @Frequency 100 Hz	0.0025 @Frequency 100 Hz	IEC 60250
	0.0090	0.0090	

Electrical Properties	Metric @ Frequency 1.00e+6	English @ Frequency 1.00e+6	IEC 60250 Comments
	Hz	Hz	
Comparative Tracking Index	250 V	250 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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China