Covestro Bayblend® T65 AT 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 flowabilityGrade characteristics:• Injection molding• Improved antistatic behaviorAs 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-AT-PCABS-Blend.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in³	ISO 1183-1
Moisture Absorption at Equilibrium	0.20 %	0.20 %	ISO 62, 50% RH
Water Absorption at Saturation	1.0 %	1.0 %	ISO 62
Viscosity	210000 cP @Shear Rate 1000 1/s, Temperature 260 °C	210000 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	52.0 MPa	7540 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	52.0 MPa	7540 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	4.8 %	4.8 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min; ISO 527-1,-2
Izod Impact, Notched (ISO)	35.0 kJ/m² @Temperature -30.0 °C	16.7 ft-lb/in² @Temperature -22.0 °F	ISO 180-A
	45.0 kJ/m² @Temperature 23.0 °C	21.4 ft-lb/in² @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
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 180-U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C @Temperature 23.0 - 55.0 °C	44.4 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)	124 °C	255 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	103 °C	217 °F	ISO 75-1,-2
Vicat Softening Point	119 °C @Load 5.10 kg	246 °F @Load 11.2 lb	50°C/h; ISO 306
	121 °C @Load 5.10 kg	250 °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+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093

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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