

Plastcom SLOVASTER® B1 BT PBT, basic type

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Features PBT basic type for injection molding. Melt is characterised by outstanding fluidity, which enables injection molding of complicated and divided products also on multiple molds. Anisotropy of shrinkage enables injection moulding of round, cylindrical or other hole products. Delivered in natural color and in the full RAL color scale. Packaging, transport, stocking. The product requires stocking in closed-up, dry places protected against sun and thermal radiation. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVASTER-B1-BT-PBT-basic-type.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	
Linear Mold Shrinkage, Transverse	0.0193 cm/cm	0.0193 in/in	
Melt Flow	40 g/10 min @Load 0.325 kg, Temperature 270 °C	40 g/10 min @Load 0.716 lb, Temperature 518 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	
Elongation at Break	8.0 %	8.0 %	
Tensile Modulus	2.50 GPa	363 ksi	
Flexural Strength	80.0 MPa	11600 psi	
Flexural Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	15.0 J/cm ²	71.4 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	NB	NB	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	200 - 220 °C	392 - 428 °F	
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	
Vicat Softening Point	200 °C	392 °F	B
Flammability, UL94	HB	HB	
Glow Wire Test	850 °C	1560 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	
Dielectric Strength	23.0 kV/mm	584 kV/in	
Comparative Tracking Index	600 V	600 V	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 80.0 °C	122 - 176 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.050 %	0.050 %	
Injection Pressure	60.0 - 100 MPa	8700 - 14500 psi	

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