

Eurostar Starpylen M1000-BK1A987 PP, Carbon Black

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Starpylen M1000-BK1A987 is a high carbon black load PP resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starpylen-M1000-BK1A987-PP-Carbon-Black.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.015 - 0.020 cm/cm	0.015 - 0.020 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	6.0 - 12 g/10 min	6.0 - 12 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	ISO 527
Elongation at Break	>= 9.0 %	>= 9.0 %	ISO 527
Flexural Strength	54.0 MPa	7830 psi	ISO 178
Flexural Modulus	2.60 GPa	377 ksi	ISO 178
Izod Impact, Unnotched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80x10x4; ISO 180/1U
Charpy Impact Unnotched	0.900 J/cm ²	4.28 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eU

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae

Processing Properties	Metric	English	Comments
Zone 1	220 - 230 °C	428 - 446 °F	
Zone 2	220 - 230 °C	428 - 446 °F	
Zone 3	220 - 230 °C	428 - 446 °F	
Melt Temperature	220 - 230 °C	428 - 446 °F	

Mold Temperature Processing Properties	30.0 - 50.0 °C Metric	86.0 - 122 °F English	Comments
Drying Temperature	70.0 °C @Time 10800 sec	158 °F @Time 3.00 hour	

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