

Polykemi AB SCANFILL BOTTLE BY45C2 Blow Molding Grade

Category : Polymer , Thermoplastic

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-SCANFILL-BOTTLE-BY45C2-Blow-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Filler Content	45 %	45 %	±2%; Polykemi
Melt Index of Compound	0.10 g/10 min @Load 2.16 kg, Temperature 230 °C	0.10 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 20.0 MPa	<= 2900 psi	ISO/R527
Elongation at Yield	15 %	15 %	ISO/R527
Flexural Strength	<= 31.0 MPa	<= 4500 psi	ISO 178
Flexural Modulus	1.80 GPa @Temperature 23.0 °C	261 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	ISO 179
Charpy Impact, Notched	1.80 J/cm ² @Temperature -20.0 °C	8.57 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	2.80 J/cm ² @Temperature 23.0 °C	13.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	42.0 °C	108 °F	120°C/h; ISO 75/1

Thermal Properties Heat Softening Point	68.0 °C Metric	154 °F English	Comments 50 °C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	125 °C	257 °F	50°C/h; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	

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