

Polykemi AB POLYblend 45V GF10 PC/ABS-blend, Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYblend-45V-GF10-PCABS-blend-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ISO 1183
Filler Content	10 %	10 %	±2%; Polykemi
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	With Flow; ISO 2577
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Elongation at Yield	3.5 %	3.5 %	ISO/R527
Flexural Strength	<= 105 MPa	<= 15200 psi	ISO 178
Flexural Modulus	4.00 GPa	580 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	120°C/h; ISO 75/1
Vicat Softening Point	115 °C	239 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	960 °C	1760 °F	IEC 695-2-1
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Mold Temperature	70.0 - 100 °C	158 - 212 °F	
Drying Temperature	100 - 110 °C	212 - 230 °F	
Dry Time	2 - 8 hour	2 - 8 hour	in circulation dryer
	2 - 8 hour	2 - 8 hour	in fresh-air dryer
	2 - 8 hour	2 - 8 hour	in desiccant air dryer
Injection Pressure	90.0 - 150 MPa	13100 - 21800 psi	
Back Pressure	0.500 - 1.50 MPa	72.5 - 218 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	20-50	% of injection pressure
Injection Speed ()	High	

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