

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

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , 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-PCABS-blend-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	With Flow; ISO 2577
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	Across Flow; ISO 2577
Melt Index of Compound	20 g/10 min	20 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 240 °C	@Load 11.0 lb, Temperature 464 °F	

Mechanical Properties	Metric	English	Comments
Elongation at Yield	4.5 %	4.5 %	ISO/R527
Flexural Strength	<= 85.0 MPa	<= 12300 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	3.00 J/cm ²	14.3 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)	100 °C	212 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	120°C/h; ISO 75/1
Vicat Softening Point	105 °C	221 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
Flammability, UL94	V-2	V-2	
	@Thickness 2.50 mm	@Thickness 0.0984 in	

Thermal Properties	960 °C Metric	1760 °F English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 °C	464 - 536 °F	
Mold Temperature	70.0 - 100 °C	158 - 212 °F	
Drying Temperature	80.0 - 100 °C	176 - 212 °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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