

Polykemi AB POLYabs V0X ABS, Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYabs-V0X-ABS-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 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	18 g/10 min	18 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	<= 40.0 MPa	<= 5800 psi	ISO/R527
Elongation at Yield	6.0 %	6.0 %	ISO/R527
Flexural Strength	<= 75.0 MPa	<= 10900 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.60 J/cm ²	7.61 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)	84.0 °C	183 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	120°C/h; ISO 75/1
Vicat Softening Point	85.0 °C	185 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	98.0 °C	208 °F	

Thermal Properties	Metric @Load 1.00 kg	English @Load 2.21 lb	50°C/h: ISO 306 Comments
Flammability, UL94	V-0	V-0	
	@Thickness 2.50 mm	@Thickness 0.0984 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	960 °C	1760 °F	IEC 695-2-1
	@Thickness 2.50 mm	@Thickness 0.0984 in	

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 210 °C	374 - 410 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2 - 4 hour	2 - 4 hour	in circulation dryer
	2 - 4 hour	2 - 4 hour	in fresh-air dryer
	2 - 4 hour	2 - 4 hour	in desiccant air dryer
Injection Pressure	90.0 - 150 MPa	13100 - 21800 psi	
Back Pressure	1.00 - 1.50 MPa	145 - 218 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	20-40	% of injection pressure
Injection Speed ()	Medium	

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