

Polykemi AB SCANMID 6 B12^ NH11L Nylon 6, Flame Retardant, Halogen Free

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced, Flame Retardant

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-SCANMID-6-B12-NH11L-Nylon-6-Flame-Retardant-Halogen-Free.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in³	ISO 1183
Linear Mold Shrinkage	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	With Flow; ISO 2577
	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	<= 78.0 MPa	<= 11300 psi	ISO/R527
Elongation at Break	10 %	10 %	ISO/R527
Flexural Strength	<= 114 MPa	<= 16500 psi	ISO 178
Flexural Modulus	3.40 GPa	493 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.900 J/cm²	4.28 ft-lb/in²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	120°C/h; ISO 75/1
Vicat Softening Point	197 °C	387 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	213 °C	415 °F	50°C/h; ISO 306

Thermal Properties	@Load 1.00 kg Metric	@Load 2.21 lb English	Comments
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
Glow Wire Test	850 °C @Thickness 0.800 mm	1560 °F @Thickness 0.0315 in	IEC 695-2-1

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