

Nilit Nilamon A3 H K8 40% Mineral Reinforced PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled

Material Notes:

Description: Nilamon A3 H K8 combines good stiffness with low warpage. It is used for applications which need a degree of rigidity, particularly at higher temperatures, but which need to stay flat after molding. Key characteristics: Good stiffness High HD Low warpage Information provided by NILIT.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nilit-Nilamon-A3-H-K8-40-Mineral-Reinforced-PA66.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792, ISO 1183
Water Absorption	0.80 %	0.80 %	23°C, 24h in H ₂ O; sim. ISO 62
Water Absorption at Saturation	5.0 %	5.0 %	sim. ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	Euronil
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	Euronil

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	95.0 MPa	13800 psi	ISO 527, ASTM D638
Elongation at Break	3.0 %	3.0 %	ISO 527, ASTM D638
Flexural Yield Strength	160 MPa	23200 psi	ISO 178, ASTM D790
Flexural Modulus	5.80 GPa	841 ksi	ISO 178, ASTM D790
	1.50 GPa	218 ksi	ISO 178, ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	85.0 °C	185 °F	20,000 hr; IEC 216
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75, ASTM D648

Thermal Properties <small>(Deflection Temperature at 1.8 MPa 1.8 MPa)</small>	165 °C Metric	329 °F English	ISO 75, ASTM D648 Comments
Vicat Softening Point	245 °C	473 °F	49 N; ISO 306, ASTM D1525
	255 °C	491 °F	9.8 N; ISO 306, ASTM D1525
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	
Oxygen Index	23 %	23 %	ASTM D2863
Glow Wire Test	650 °C @Thickness 3.20 mm	1200 °F @Thickness 0.126 in	Glow Wire Flammability Index; IEC 694-2-12
	650 °C @Thickness 0.800 mm	1200 °F @Thickness 0.0315 in	Glow Wire Flammability Index; IEC 694-2-12

Electrical Properties	Metric	English	Comments
Dielectric Strength	20.0 kV/mm @Thickness 2.00 mm	508 kV/in @Thickness 0.0787 in	ASTM D149
Comparative Tracking Index	350 V @Thickness 3.20 mm	350 V @Thickness 0.126 in	Sol. B; IEC 112, UL 746A
	500 V @Thickness 3.20 mm	500 V @Thickness 0.126 in	Sol. A; IEC 112, UL 746A

Processing Properties	Metric	English	Comments
Nozzle Temperature	280 - 295 °C	536 - 563 °F	
Zone 1	270 - 290 °C	518 - 554 °F	hopper
Zone 2	275 - 290 °C	527 - 554 °F	
Zone 3	280 - 295 °C	536 - 563 °F	
Zone 4	280 - 295 °C	536 - 563 °F	
Melt Temperature	275 - 290 °C	527 - 554 °F	Do not melt above 300°C
Mold Temperature	90.0 - 110 °C	194 - 230 °F	Preferred
Drying Temperature	80.0 - 85.0 °C	176 - 185 °F	

Dry Time Processing Properties	4 hour Metric	4 hour English	Comments
Injection Pressure	70.0 - 100 MPa	10200 - 14500 psi	

Descriptive Properties	Value	Comments
Clamping Force	in tons, 0.7 times the projected surface area in cm ²	
Flammability Rating	B30	FMVSS No. 302, 355x100x1 mm
Heat Resistance - Ball Test	OK	at 125°C, IEC 309
	OK	at 165°C, IEC 309
Holding Pressure	90 MPa	

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