

## Nilit Nilamid A3 H G3 ZB 13% Glass Reinforced High Impact PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

### Material Notes:

Description: Nilamid A3 H G3 ZB (13% Glass Reinforced) was developed for applications that require a combination of high stiffness and good elongation or impact resistance. It is widely used for applications that need the strength and stiffness of reinforced polyamide, but also need to be snap fitted. Key characteristics: Good stiffness and strength Excellent impact resistance High elongation Good moldability Information provided by NILIT.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Nilit-Nilamid-A3-H-G3-ZB-13-Glass-Reinforced-High-Impact-PA66.php](http://www.lookpolymers.com/polymer_Nilit-Nilamid-A3-H-G3-ZB-13-Glass-Reinforced-High-Impact-PA66.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM D792, ISO 1183
Water Absorption	1.0 %	1.0 %	23°C, 24h in H <sub>2</sub> O; sim. ISO 62
Water Absorption at Saturation	6.0 %	6.0 %	sim. ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	Euronil
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	Euronil

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	ISO 527, ASTM D638
Elongation at Break	4.0 %	4.0 %	ISO 527, ASTM D638
Flexural Yield Strength	150 MPa	21800 psi	ISO 178, ASTM D790
Flexural Modulus	3.80 GPa	551 ksi	ISO 178, ASTM D790
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	85.0 °C	185 °F	20,000 hr; IEC 216
Deflection Temperature at 1.8 MPa (264 psi)	238 °C	460 °F	ISO 75, ASTM D648
Vicat Softening Point	240 °C	464 °F	49 N; ISO 306, ASTM D1525

Thermal Properties	Metric	English	Comments
	255 °C	491 °F	9.8 N, ISO 305, ASTM D1525
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	
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
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 - 300 °C	527 - 572 °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	4 hour	4 hour	
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 <sup>2</sup>	
Heat Resistance - Ball Test		at 125°C, IEC 309

Descriptive Properties	OK Value	Comments
	OK	at 165°C, IEC 309
Holding Pressure	90 Mpa	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China