

## Hippe PA 66 GF 30 Nylon 66 30% Glass fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

### Material Notes:

These polyamide components being reinforced with glass fiber up to 30% are not only highly wear-resistant, but also show high mechanical strength, stiffness and dimensional stability. They can also be used under high working temperatures. Information provided by Hippe.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hippe-PA-66-GF-30-Nylon-66-30-Glass-fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Hippe-PA-66-GF-30-Nylon-66-30-Glass-fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	DIN 53 479
Moisture Absorption at Equilibrium	1.5 %	1.5 %	Absorption of humidity in standard operating environment; DIN 53 715
Water Absorption at Saturation	5.5 %	5.5 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	200 - 270 MPa	29000 - 39200 psi	DIN 53 456
	@Time 30.0 sec	@Time 0.00833 hour	
Elongation at Break	3.5 %	3.5 %	dry; DIN 53 455
	5.0 %	5.0 %	cond.; DIN 53 455
Tensile Modulus	7.50 GPa	1090 ksi	cond.; DIN 53 457
	9.70 GPa	1410 ksi	dry; DIN 53 457
Charpy Impact, Notched	1.30 - 1.70 J/cm <sup>2</sup>	6.19 - 8.09 ft-lb/in <sup>2</sup>	DIN 53 453
Coefficient of Friction, Dynamic	0.45 - 0.50	0.45 - 0.50	Against steel, p=0.05 N/mm <sup>2</sup> , v=0.6 m/s, hardened and ground
Tear Strength Test	140	140	in MPa; Cond.; DIN 53 455
	200	200	in MPa; dry; DIN 53 455

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 - 30.0 μm/m-°C	11.1 - 16.7 μin/in-°F	
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	255 °C	491 °F	DIN 53 736
Maximum Service Temperature, Air	110 °C	230 °F	Continuous use

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO-R 75 Method B
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO-R 75 Method A
Glass Transition Temp, Tg	5.00 °C	41.0 °F	cond., dynamic; DIN 53 736
	50.0 °C	122 °F	dry, dynamic; DIN 53 736
Flammability, UL94	HB	HB	

Descriptive Properties	Value	Comments
Color	black	
Creep Resistance	Grade CTI 475	DIN 53 480, IEC-112, VDE 0303 Part 1
Resistance to hot water, suds	resistant in some conditions	

## Contact Songhan Plastic Technology Co.,Ltd.

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