

## Polikim KESTAMID® GRF Polyamide 6, Graphite Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Carbon Fiber Filled

### Material Notes:

Graphite and special lubricants are evenly dispersed in its entirety in this type of Polikim's cast polyamide. The material is dark grey colored. Kestamid®-GRF has a high degree of crystallinity and better hardness and compression strength properties compared to standard Kestamid®. It has a low coefficient of friction and a high degree of abrasion resistance. It has good weatherability and UV resistance properties and can be more easily mechanically machined compared to standard Kestamid®. It also can be used in higher temperatures compared again to the standard type. Information provided by Polikim Polimer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polikim-KESTAMID-GRF-Polyamide-6-Graphite-Filled.php](http://www.lookpolymers.com/polymer_Polikim-KESTAMID-GRF-Polyamide-6-Graphite-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	5.0 %	5.0 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ISO 868
Tensile Strength, Ultimate	73.5 MPa	10700 psi	ISO 527
Elongation at Break	>= 20 %	>= 20 %	ISO 527
Tensile Modulus	4.10 GPa	595 ksi	ISO 527
Compressive Strength	93.2 MPa	13500 psi	ISO 604
Compressive Modulus	3.00 GPa	435 ksi	ISO 604
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 180
Charpy Impact Unnotched	NB	NB	ISO 179
Coefficient of Friction	0.15	0.15	
K Factor (Wear Factor)	0.20	0.20	[mg/km]
K (wear) Factor	120 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	59.6 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359
Melting Point	220 °C	428 °F	
Maximum Service Temperature, Air	115 °C	239 °F	continuous

Thermal Properties	Metric	English	Comments
	TG D	50 %	short term

**Contact Songhan Plastic Technology Co.,Ltd.**

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