

## Polikim KESTAMID® HS Polyamide 6, Heat Resistant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Heat Stabilized

### Material Notes:

Kestamid-HS® is Polikim's cast polyamide with increased heat resistance. Thermal stabilizer additives increase thermal aging significantly. In operating temperatures over 80°C, it performs with a longer duration compared to other extrusion and cast polyamide types. Its continuous operating temperature increases by 15-30°C compared to Kestamid® and reaches the 125-140°C interval. Thanks to its short term operating temperature that reaches 185-200°C interval, it is used safely in many applications that require heat resistance. Information provided by Polikim Polymer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polikim-KESTAMID-HS-Polyamide-6-Heat-Resistant.php](http://www.lookpolymers.com/polymer_Polikim-KESTAMID-HS-Polyamide-6-Heat-Resistant.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	6.0 %	6.0 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	ISO 868
Tensile Strength, Ultimate	78.5 MPa	11400 psi	ISO 527
Elongation at Break	>= 20 %	>= 20 %	ISO 527
Tensile Modulus	4.00 GPa	580 ksi	ISO 527
Compressive Strength	93.2 MPa	13500 psi	ISO 604
Compressive Modulus	2.70 GPa	392 ksi	ISO 604
Izod Impact, Notched (ISO)	5.60 kJ/m <sup>2</sup>	2.66 ft-lb/in <sup>2</sup>	ISO 180
Charpy Impact Unnotched	NB	NB	ISO 179
Coefficient of Friction	0.39	0.39	
K Factor (Wear Factor)	0.44	0.44	[mg/km]
K (wear) Factor	500 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	248 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	125 °C	257 °F	continuous

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{14}$ ohm-cm	$\geq 1.00 \times 10^{14}$ ohm-cm	ISO 60093
Surface Resistance	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	ISO 60093
Dielectric Constant	3.7	3.7	ISO 60250
Dielectric Strength	25.0 kV/mm	635 kV/in	ISO 50243

## 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