

Daelim H&L Plavis MS Aromatic Polyimide, 15% MoS2 Filled, Machined Parts

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Available in vacuum or non-lubrication condition, very high abrasion resistance and low friction coefficient property. Information provided by Daelim H&L

Order this product through the following link:

http://www.lookpolymers.com/polymer_Daelim-HL-Plavis-MS-Aromatic-Polyimide-15-MoS2-Filled-Machined-Parts.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.90 %	0.90 %	50% RH; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70 - 75	70 - 75	ASTM D785
Tensile Strength, Ultimate	78.5 MPa @Temperature 23.0 °C	11400 psi @Temperature 73.4 °F	ASTM D1708
Tensile Strength, Yield	29.4 MPa @Strain 1.00 %	4270 psi @Strain 1.00 %	ASTM D95
	103 MPa @Strain 10.0 %	14900 psi @Strain 10.0 %	ASTM D95
Elongation at Break	6.3 % @Temperature 23.0 °C	6.3 % @Temperature 73.4 °F	ASTM D1708
Flexural Strength	51.0 MPa @Temperature 260 °C	7400 psi @Temperature 500 °F	ASTM D790
	85.8 MPa @Temperature 23.0 °C	12400 psi @Temperature 73.4 °F	ASTM D790
Flexural Modulus	2.35 GPa @Temperature 260 °C	341 ksi @Temperature 500 °F	ASTM D790
	2.94 GPa @Temperature 23.0 °C	427 ksi @Temperature 73.4 °F	ASTM D790
Compressive Modulus	2.4525 GPa @Temperature 23.0 °C	355.71 ksi @Temperature 73.4 °F	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	5.10 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	2.83 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 23.0 - 260 $^\circ\text{C}$	@Temperature 73.4 - 500 $^\circ\text{F}$	
Decomposition Temperature	623 $^\circ\text{C}$	1150 $^\circ\text{F}$	

Descriptive Properties	Value	Comments
50% Weight Reduction Time (Minutes)	250	

Contact Songhan Plastic Technology Co.,Ltd.

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