

Daelim H&L Plavis G15 Aromatic Polyimide, 15% Graphite Filled, Machined Parts

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

High abrasion resistance, very low friction coefficient property, suitable for being applied to spin component of spin apparatus
Information provided by Daelim H&L

Order this product through the following link:

http://www.lookpolymers.com/polymer_Daelim-HL-Plavis-G15-Aromatic-Polyimide-15-Graphite-Filled-Machined-Parts.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.90 %	0.90 %	50% RH; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80 - 92	80 - 92	ASTM D785
Tensile Strength, Ultimate	47.1 MPa	6830 psi	ASTM D1708
	@Temperature 260 °C	@Temperature 500 °F	
	78.7 MPa	11400 psi	ASTM D1708
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength, Yield	58.9 MPa	8550 psi	ASTM D95
	@Strain 1.00 %	@Strain 1.00 %	
	138.5 MPa	20080 psi	ASTM D95
	@Strain 10.0 %	@Strain 10.0 %	
Elongation at Break	7.4 %	7.4 %	ASTM D1708
	@Temperature 260 °C	@Temperature 500 °F	
	11.2 %	11.2 %	ASTM D1708
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	64.7 MPa	9380 psi	ASTM D790
	@Temperature 260 °C	@Temperature 500 °F	
	118.5 MPa	17190 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
	@Temperature 260 °C	@Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
	2.9234 GPa	424.00 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Modulus	2.9234 GPa	424.00 ksi	ASTM D695
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	4.7088 kJ/m²	2.2410 ft-lb/in²	ASTM D256
Coefficient of Friction	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	4.70 µm/m-°C	2.61 µin/in-°F	ASTM D696
	@Temperature 23.0 - 260 °C	@Temperature 73.4 - 500 °F	
Decomposition Temperature	616 °C	1140 °F	
Oxygen Index	54.15 %	54.15 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 - 1.00e+15 ohm-cm	1.00e+14 - 1.00e+15 ohm-cm	ASTM D257
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dissipation Factor	0.0104	0.0104	ASTM D150
	@Frequency 1.00e+6 Hz, Temperature 23.0 °C	@Frequency 1.00e+6 Hz, Temperature 73.4 °F	

Descriptive Properties	Value	Comments
50% Weight Reduction Time (Minutes)	240	

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