

Daelim H&L Plavis G40 Aromatic Polyimide, 40% Graphite Filled, Machined Parts

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Higher abrasion resistance than G15, high value stability and very 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-G40-Aromatic-Polyimide-40-Graphite-Filled-Machined-Parts.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.63 g/cc	1.63 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.85 %	0.85 %	50% RH; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	68 - 78	68 - 78	ASTM D785
Tensile Strength, Ultimate	41.1 MPa	5960 psi	ASTM D1708
	@Temperature 260 °C	@Temperature 500 °F	
	73.2 MPa	10600 psi	ASTM D1708
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength, Yield	32.6 MPa	4720 psi	ASTM D95
	@Strain 1.00 %	@Strain 1.00 %	
	115 MPa	16600 psi	ASTM D95
	@Strain 10.0 %	@Strain 10.0 %	
Elongation at Break	5.7 %	5.7 %	ASTM D1708
	@Temperature 260 °C	@Temperature 500 °F	
	6.5 %	6.5 %	ASTM D1708
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	48.1 MPa	6980 psi	ASTM D790
	@Temperature 260 °C	@Temperature 500 °F	
	90.4 MPa	13100 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
	@Temperature 260 °C	@Temperature 500 °F	

Mechanical Properties	4.848 GPa Metric	703.2 ksi English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Modulus	3.3864 GPa	491.16 ksi	ASTM D695
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	4.3164 kJ/m²	2.0543 ft-lb/in²	ASTM D256
Coefficient of Friction	0.14	0.14	

Thermal Properties	Metric	English	Comments
CTE, linear	3.40 µm/m-°C	1.89 µin/in-°F	ASTM D696
	@Temperature 23.0 - 260 °C	@Temperature 73.4 - 500 °F	
Decomposition Temperature	616 °C	1140 °F	
Oxygen Index	53.7 %	53.7 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm - 1e+05	10000 ohm-cm - 1e+05	ASTM D257
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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

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