

Daelim H&L Plavis G15 Aromatic Polyimide, 15% Graphite Filled, Direct Formed (Unverified Data**)

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

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-Direct-Formed-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	68 - 78	68 - 78	ASTM D785
Tensile Strength, Ultimate	38.6 MPa	5600 psi	ASTM D1708
	@Temperature 260 °C	@Temperature 500 °F	
Tensile Strength, Yield	72.5 MPa	10500 psi	ASTM D1708
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength, Yield	23.3 MPa	3390 psi	ASTM D95
	@Strain 1.00 %	@Strain 1.00 %	
Elongation at Break	106.0 MPa	15380 psi	ASTM D95
	@Strain 10.0 %	@Strain 10.0 %	
Elongation at Break	5.4 %	5.4 %	ASTM D1708
	@Temperature 260 °C	@Temperature 500 °F	
Flexural Strength	8.7 %	8.7 %	ASTM D1708
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	54.0 MPa	7830 psi	ASTM D790
	@Temperature 260 °C	@Temperature 500 °F	
Flexural Modulus	86.2 MPa	12500 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	1.819 GPa	263.8 ksi	ASTM D790
	@Temperature 260 °C	@Temperature 500 °F	
	3.1761 GPa	460.65 ksi	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D790 Comments
Compressive Modulus	2.3838 GPa @Temperature 23.0 °C	345.74 ksi @Temperature 73.4 °F	ASTM D695
Shear Strength	78.48 MPa @Temperature 23.0 °C	11380 psi @Temperature 73.4 °F	ASTM D732
Izod Impact, Notched (ISO)	4.5126 kJ/m ²	2.1477 ft-lb/in ²	ASTM D256
Coefficient of Friction	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	3.50 μm/m-°C @Temperature 23.0 - 260 °C	1.94 μin/in-°F @Temperature 73.4 - 500 °F	ASTM D696
Decomposition Temperature	616 °C	1140 °F	

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

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