

Daelim H&L Plavis G40 Aromatic Polyimide, 40% 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-G40-Aromatic-Polyimide-40-Graphite-Filled-Direct-Formed-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	66 - 70	66 - 70	ASTM D785
Tensile Strength, Ultimate	35.7 MPa	5180 psi	ASTM D1708
	@Temperature 260 °C	@Temperature 500 °F	
Tensile Strength, Yield	65.4 MPa	9490 psi	ASTM D1708
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength, Yield	28.1 MPa	4080 psi	ASTM D95
	@Strain 1.00 %	@Strain 1.00 %	
Elongation at Break	98.36 MPa	14270 psi	ASTM D95
	@Strain 10.0 %	@Strain 10.0 %	
Elongation at Break	3.4 %	3.4 %	ASTM D1708
	@Temperature 260 °C	@Temperature 500 °F	
Flexural Strength	5.5 %	5.5 %	ASTM D1708
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	38.8 MPa	5630 psi	ASTM D790
	@Temperature 260 °C	@Temperature 500 °F	
Flexural Modulus	75.9 MPa	11000 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	2.0638 GPa	299.33 ksi	ASTM D790
	@Temperature 260 °C	@Temperature 500 °F	
	3.2966 GPa	478.13 ksi	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D790 Comments
Compressive Modulus	2.8351 GPa @ Temperature 23.0 °C	411.20 ksi @ Temperature 73.4 °F	ASTM D695
Izod Impact, Notched (ISO)	4.1202 kJ/m ²	1.9609 ft-lb/in ²	ASTM D256
Coefficient of Friction	0.14	0.14	

Thermal Properties	Metric	English	Comments
CTE, linear	2.50 μm/m-°C @ Temperature 23.0 - 260 °C	1.39 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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