

Plavis® N

Thermoplastic Polyimide

Comco Nylon GmbH

Message:

PLAVIS is a super engineering plastic. PLAVIS polyimide has a unique chemical structure with some of the highest properties available. Nitrogen bonded to 3 carbons is the critical part of the chain and imparts the plastic with remarkable features and benefits.

DAELIM makes PLAVIS isostatic molded rods have uniform properties in all directions.

General Information			
Features	The degassing effect is low to no Insulation Anti-gamma radiation Heat resistance, high Thermal insulation Flame retardancy		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Water Absorption ¹ (24 hr, 50%RH)	0.90 - 1.1	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, Compression Molded)	90 - 105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D1708
Fracture, 23°C	88.3	MPa	ASTM D1708
Fracture, 260°C	41.2	MPa	ASTM D1708
Tensile Elongation ³			ASTM D1708
Fracture, 23°C	8.0	%	ASTM D1708
Fracture, 260°C	6.0	%	ASTM D1708
Flexural Modulus			ASTM D790
23°C, molded	3040	MPa	ASTM D790
260°C, molding	1670	MPa	ASTM D790
Flexural Strength			ASTM D790
23°C, molded	113	MPa	ASTM D790
260°C, molding	58.8	MPa	ASTM D790
Compressive Modulus ⁴	2350	MPa	ASTM D695
Compressive Strength ⁵			ASTM D695
1% strain, 23°C	24.5	MPa	ASTM D695
10% strain, 23°C	128	MPa	ASTM D695
Coefficient of Friction ⁶	0.32		
Wear Rate	33	mm/sec	

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow ⁷ (23 to 260°C)	5.5E-5	cm/cm/°C	ASTM D696
Thermal Conductivity ⁸ (25°C)	0.36	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁹	1.0E+14 - 1.0E+16	ohms	ASTM D257
Volume Resistivity ¹⁰ (23°C)	1.0E+16 - 1.0E+18	ohms·cm	ASTM D257
Dielectric Strength ¹¹	22	kV/mm	ASTM D149
Dielectric Constant ¹² (23°C, 1 MHz)	3.75		ASTM D150
NOTE			
1.	Compression Molded		
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