

Plavis® S

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 Heat resistance, high Flame retardancy		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, Compression Molded)	100 - 120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D1708
Fracture, 23°C	164	MPa	ASTM D1708
Fracture, 260°C	64.0	MPa	ASTM D1708
Tensile Elongation ²			ASTM D1708
Fracture, 23°C	8.0	%	ASTM D1708
Fracture, 260°C	40	%	ASTM D1708
Compressive Strength ³ (10% Strain,23°C)	210	MPa	ASTM D695
Coefficient of Friction ⁴	0.34		
Wear Rate	0.4 - 2.0	m/sec	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow ⁵ (23 to 260°C)	5.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁶	1.0E+15	ohms	ASTM D257
Volume Resistivity ⁷ (23°C)	1.0E+15	ohms · cm	ASTM D257
Dielectric Constant ⁸ (23°C, 1 MHz)	5.10		ASTM D150
NOTE			
1.	Compression Molded		
2.	Compression Molded		
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