

Daelim H&L Plavis-MS DF MoS2 Filled Aromatic Polyimide Bearing

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Direct Formed. Plavis-MS: MoS2 15 wt% filled, Self lubricating grade for vacuum environments. General Plavis information for all grades: PLAVIS polyimide has nitrogen bonded to 3 carbons is the critical part of the chain and imparts the plastic with remarkable features and benefits. PLAVIS is available as raw material or as molded parts, plates, and rods. PLAVIS isostatic molded rods have uniform properties in all directions. Properties: One of the highest temperature plastics in the world with a continuous operating temperature of 300?. Well suited for cryogenic conditions Retains high tensile strength and modulus even at high temperatures. Will not crack or creep under load. Lowest out-gassing of any plastic at 300?. Will not contaminate vacuum chamber process or products. Grades are available for use at 1 million psi-fpm PV limit with lubrication, 300,000 psi-fpm PV limit without lubrication. Stable friction level. Filled grades resistivity is tailorable. Machines like brass-tiny and intricate features can be produced without cracking. Can be lapped to mirror finish. Applications: Flat Panel Display/Solar Cells:: Drying oven (HP/CP, Baking, IR) Glass support pins, Glass holders, Rollers; Cleaning EUV roller, Bearing; PVD/CVD Insulation parts Insert, Clamp, Bush, Caps, Susceptor pin, Ball bearing etc.; Etcher Screw, bolts. and Others Probe unit, station parts Semiconductor: Wafer Processing Wafer clamp rings, Insulators, Screw & Fasteners, Vacuum pads, Alignment pins; Wafer handling, guides, and carriers, Vacuum pick up strips; IC handling & testing Die pick up collects, Test socket insulator General Industry: Hot runner system Seal caps, Insulators; Plasma cutting torches parts Swirl rings, Insulator, Caps.; Heat resistance materials Bottle grippers, Conveyor tips; Scientific consumable parts GC/Mass ferrules, HPLC valve rotors; Textile Machines Valve seat, Bearing, Shedder Bushing Automotive / Transportation: Transmissions Thrust Washers, Seal Rings, Valve Seats, Transmission Valve Balls, Check Valves; Electrical Motors Bushings, Washers, Thrust Plugs; Brakes Wear Pads, Valve Seats and Balls in ABS Systems; Fuel Systems Bushings, Seal Rings, Band Springs, Valve Seats; Turbo Chargers Ball Bearing Retainers, Wastegate Bushings; Vacuum Pump Vanes, Engine Belt Tensioners, Rubbing Blocks, Door Hinge Bushings, Gear Stick Rollers, Ignition Distributors, Constant Friction Pads for Split-Flywheels Aerospace/Aircraft: Compressor Variable Vane Bushings and Washers, Aircraft Fan Thrust Reverser, Fan Blade Wear Strips, Locking Insert Nut, Fuel Line Spacer, Reciprocating Shaft Seal for Jet Engine Afterburner Actuating System Information provided by Daelim H&L

Order this product through the following link:

http://www.lookpolymers.com/polymer_Daelim-HL-Plavis-MS-DF-MoS2-Filled-Aromatic-Polyimide-Bearing.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	58.8 MPa	8530 psi	ASTM D1708
Elongation at Break	4.50 %	4.50 %	ASTM D1708
Flexural Strength	76.5 MPa	11100 psi	ASTM D790
	39.2 MPa @Temperature 260 °C	5690 psi @Temperature 500 °F	ASTM D790
Flexural Modulus	3.285 GPa	476.5 ksi	ASTM D790
	1.814 GPa @Temperature 260 °C	263.1 ksi @Temperature 500 °F	ASTM D790
	34.3 MPa	4970 psi	

Compressive Strength Mechanical Properties	Metric @Strain 1.00 %	English @Strain 1.00 %	ASTM D695 Comments
	127.5 MPa	18490 psi	ASTM D695
	@Strain 10.0 %	@Strain 10.0 %	
Compressive Modulus	2.452 GPa	355.6 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m}/\text{m}\cdot\text{C}$	27.8 $\mu\text{in}/\text{in}\cdot\text{F}$	ASTM D696
	@Temperature 23.0 - 260 °C	@Temperature 73.4 - 500 °F	
Maximum Service Temperature, Air	300 °C	572 °F	Continuous
Deflection Temperature at 1.8 MPa (264 psi)	360 °C	680 °F	
Flammability, UL94	V-0	V-0	

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