Ensinger TECASINT 4041 Polyimide, Glossy Black, Molybdenum Sulfide (PI)

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic , Thermoplastic Polyimide, Machined, MoS2 Filled

Material Notes:

TECASINT is a range of non-melting high temperature polyimides characterized by high strength over a wide range of temperatures, good long term thermal stability, minimal thermal expansion and excellent wear resistance among other things. The TECASINT 2000 series offers these enhanced thermal properties along with lower moisture absorption, a higher degree of toughness, and better machining properties. TECASINT 2011 is unfilled, while TECASINT 2021 contains 15% graphite which offer improved wear resistance and a lower coefficient of friction. TECASINT 2000 series with their superior physical properties, are ideal for application in the aerospace, nuclear, automotive, electrical/electronics, and chemical processing industries.Main features: Very high thermal and oxidative resistance, high creep resistant, good radiation-resistance, high toughness, very good chemical resistance, very low absorption of water, low outgassing, good slid and wear properties, easily machined, good electrical insulating, flame retardant according to UL94 V-0, sensitive to hydrolysis in higher thermal ranApplications: Mechanical engineering, precision engineering, vacuum engineering, electronics, conveyor technology, electrical engineeringPreferred Fields: Vacuum seal, valve seating, chain guides, piston rings, bushings, switch parts, friction rings, insulatorsInformation Provided by Ensinger Sintimid

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http://www.lookpolymers.com/polymer_Ensinger-TECASINT-4041-Polyimide-Glossy-Black-Molybdenum-Sulfide-PI.php

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in³	DIN 53 479
Water Absorption	0.070 % @Temperature 23.0 °C	0.070 % @Temperature 73.4 °F	24 hours in water; EN ISO 62
	0.63 % @Temperature 80.0 °C	0.63 % @Temperature 176 °F	24 hours in water; EN ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88 @Temperature 23.0 °C	88 @Temperature 73.4 °F	DIN 53 505
Elongation at Yield	3.3 % @Temperature 23.0 °C	3.3 % @Temperature 73.4 °F	Flexural Elongation; EN ISO 178
Flexural Strength	137 MPa @Temperature 23.0 °C	19900 psi @Temperature 73.4 °F	EN ISO 178
Flexural Modulus	4.80 GPa @Temperature 23.0 °C	696 ksi @Temperature 73.4 °F	EN ISO 178
Compressive Yield Strength	160 MPa @Strain 10.0 %,	23200 psi @Strain 10.0 %,	EN ISO 604

Mechanical Properties	Metric Temperature 23.0 °C	English Temperature 73.4 °F	Comments
Compressive Strength	224 MPa @Temperature 23.0 °C	32500 psi @Temperature 73.4 °F	EN ISO 604
Compressive Modulus	1.945 GPa @Temperature 23.0 °C	282.1 ksi @Temperature 73.4 °F	EN ISO 604
Compression Set	47 % @Temperature 23.0 °C	47 % @Temperature 73.4 °F	Compression at Break; EN ISO 604

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	260 °C	500 °F	DMTA

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