

Ensinger Sintimid™ V 40% graphite Polyimide (PI) (discontinued **)

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic , Thermoplastic Polyimide, Graphite Filled

Material Notes:

SINTIMID™ V polyimide stock shapes provide a superior combination of high temperature and bearing and wear, properties that make it an idea choice for the most demanding applications. SINTIMID™ V is characterized by its long-term thermal stability, outstanding wear resistance, high creep resistance, and strength up to its continuous use temperature of 572°F. Specialty grades containing internal lubricants such as graphite are available for applications requiring improved wear resistance and lower coefficients of friction. Superior high temperature characteristics Excellent long-term thermal stability Outstanding bearing and wear properties (at elevated temperatures, SINTIMID™ V formulations offer superior wear rates) Excellent creep resistance High strength and stiffness properties (SINTIMID™ V has a tensile strength of 20,000 psi at room temperature) High purity characteristics (only extremely low levels of extractables and ionic impurities are apparent in SINTIMID™ V) Good chemical resistance (SINTIMID™ V is not attacked by common solvents or fuels and is acceptable for use in contact with many acids) SINTIMID™ V with its superior physical properties, is ideal for applications in the aerospace, nuclear, automotive, electrical/electronic, and chemical processing industries. It is an excellent candidate for high purity applications in the semiconductor processing industry. Typical components produced from SINTIMID™ V include seals, thrust washers, bushings and wear pads in transportation/off-highway equipment, insulating and support elements in electrical welding and brazing equipment, and wafer-handling components in the harsh environment of semiconductor plasma ovens. Pump and valve seals, vanes, and piston rings are also commonly produced from SINTIMID™ V. Information Provided by Ensinger Industries, Inc. Sintimid has been replaced with Tecasint in the Ensinger product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Sintimid-V-40-graphite-Polyimide-PI-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D792
Density	1.56 g/cc	0.0563 lb/in ³	ASTM D792
Water Absorption	0.87 % @Temperature 22.8 °C, Time 86400 sec	0.87 % @Temperature 73.0 °F, Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	111	111	ASTM D785
Tensile Strength, Yield	64.8 MPa @Temperature 22.8 °C	9400 psi @Temperature 73.0 °F	ASTM D638
Elongation at Break	2.2 % @Temperature 22.8 °C	2.2 % @Temperature 73.0 °F	ASTM D638
Flexural Strength	100 MPa @Temperature 22.8 °C	14500 psi @Temperature 73.0 °F	ASTM D790

Mechanical Properties	Metric Pa	English	Comments
Flexural Modulus	@Temperature 22.8 °C	@Temperature 73.0 °F	ASTM D790
Izod Impact, Notched	0.160 J/cm @Temperature 22.8 °C	0.300 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.6 µm/m-°C	17.0 µin/in-°F	ASTM D696
Maximum Service Temperature, Air	280 °C	536 °F	Long Term
	330 °C	626 °F	Intermittent
Deflection Temperature at 1.8 MPa (264 psi)	>= 316 °C	>= 600 °F	ASTM D648

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