

Ensinger TECASINT 8001 Polytetrafluoroethylene (PTFE) + Polyimide, 20% (PI)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polyimide, Thermoplastic

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: Antiadhesive, Strong, Good chemical resistance, Very good UV and weather resistance, Flame retardant according to UL94 V-0, Very tough, Very good electrical insulation, Good slid and wear properties, Easily machined. Applications: Mechanical engineering, Fittings, Cryogenics, Medical technology, Conveyor technology, Electrical engineering, Food technology, Textile industry. Preferred Fields: Valve seats, piston guides, silding rails, ring seals, bearing discs, bearings. Information Provided by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-TECASINT-8001-Polytetrafluoroethylene-PTFE-Polyimide-20-PI.php

Physical Properties	Metric	English	Comments
Density	1.88 g/cc @Temperature 23.0 °C	0.0679 lb/in ³ @Temperature 73.4 °F	DIN 53 479
Filler Content	20 %	20 %	PI
Water Absorption	0.70 % @Temperature 23.0 °C, Time 86400 sec	0.70 % @Temperature 73.4 °F, Time 24.0 hour	EN ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 @Temperature 23.0 °C	65 @Temperature 73.4 °F	DIN 53 505
Tensile Strength, Yield	15.0 MPa @Temperature 23.0 °C	2180 psi @Temperature 73.4 °F	EN ISO 527
Elongation at Break	200 % @Temperature 23.0 °C	200 % @Temperature 73.4 °F	EN ISO 527

Thermal Properties	Metric	English	Comments
CTE, linear	144 µm/m-°C @Temperature 50.0 - 200 °C	80.0 µin/in-°F @Temperature 122 - 392 °F	DIN 53 752

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.250 W/m-K @Temperature 40.0 °C	1.74 BTU-in/hr-ft ² -°F @Temperature 104 °F	ISO 8302
Glass Transition Temp, Tg	-20.0 °C	-4.00 °F	DMTA
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm @Temperature 23.0 °C	1.00e+18 ohm-cm @Temperature 73.4 °F	IEC 60093
Dielectric Constant	2.3 @Frequency 10000 Hz, Temperature 23.0 °C	2.3 @Frequency 10000 Hz, Temperature 73.4 °F	IEC 60250

Descriptive Properties	Value	Comments
Color	Ochre Brown	
DIN-Abbreviation	TF PI	

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