

Ensinger TECASINT 1611 Polyimide, 30% PTFE Filled (PI)

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic , Thermoplastic Polyimide, Molded, PTFE 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 High thermal and mechanical capacity Good radiation-resistance Broad chemical compatibility Easily machined to tight tolerances Flame retardant according to UL94 V-0 Very creep resistant Low outgassing Good sliding properties Very good electrical insulation Sensitive to hydrolysis in high thermal range Applications Mechanical engineering Materials handling equipment Aircraft and aerospace industries Precision engineering Automotive industry Nuclear and vacuum technology Cryogenics Textile industry Preferred Fields Valve seating, piston rings, chain guides, bearings Information Provided by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-TECASINT-1611-Polyimide-30-PTFE-Filled-PI.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	DIN 53 479
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Filler Content	30 %	30 %	PTFE
Water Absorption	0.46 %	0.46 %	EN ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	DIN 53 505
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength, Yield	82.0 MPa	11900 psi	EN ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	4.1 %	4.1 %	EN ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	5.6 %	5.6 %	Flexural; EN ISO 178
Flexural Strength	122 MPa	17700 psi	EN ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Compressive Strength	211 MPa @Temperature 23.0 °C	30600 psi @Temperature 73.4 °F	EN ISO 604
Izod Impact, Notched (ISO)	23.0 kJ/m ²	10.9 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C @Temperature 50.0 - 200 °C	27.8 µin/in-°F @Temperature 122 - 392 °F	DIN 53 752
Glass Transition Temp, Tg	330 °C	626 °F	DMTA
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm @Temperature 23.0 °C	1.00e+17 ohm-cm @Temperature 73.4 °F	IEC 60093
Surface Resistance	1.00e+16 ohm @Temperature 23.0 °C	1.00e+16 ohm @Temperature 73.4 °F	IEC 60093

Descriptive Properties	Value	Comments
Color	Ochre Brown	
DIN-Abbreviation	PI TF 30	

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