

Ensinger TECASINT™ 2061 Polyimide, 15% Graphite, 10% PTFE Filled (PI)

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

Material Notes:

TECASINT™ 2000 series of polyimide stock shapes provide a superior combination of high temperature and bearing and wear, properties that make it an ideal choice for the most demanding applications. TECASINT™ 2011 is very pure, and exhibits low outgassing. It is also characterized by it's long term thermal stability, outstanding wear resistance, high creep resistance, and strength up to its continuous use temperature of 536° F. TECASINT™ 2021 contains 15% graphite and is also available for applications requiring improved wear resistance & lower coefficient of friction. Superior high temperature characteristics (TECASINT™ 2000 series can operate up to 536° F continuously)Excellent long-term thermal stabilityOutstanding bearing and wear properties (at elevated temperatures, TECASINT™ 2000 formulations offer superior wear rates)Excellent creep resistanceHigh strength and stiffness propertiesHigh purity characteristics (only extremely low levels of extractables and ionic impurities are apparent in TECASINT™ 2011)Good chemical resistance (TECASINT™ 2000 series is not attacked by common solvents or fuels and is acceptable for use in contact with many acids)TECASINT™ 2000 series with their superior physical properties, are ideal for applications in the aerospace, nuclear, automotive, electrical/electronics, and chemical processing industries. TECASINT™ shapes are excellent candidates for high purity applications in the semiconductor processing industry. Typical components produced from TECASINT™ applications 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 TECASINT™ series materials.Information Provided by Ensinger Inc.

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http://www.lookpolymers.com/polymer_Ensinger-TECASINT-2061-Polyimide-15-Graphite-10-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	10 %	10 %	PTFE
	15 %	15 %	Graphite
Water Absorption	0.35 %	0.35 %	EN ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
	1.5 %	1.5 %	EN ISO 62
	@Temperature 80.0 °C, Time 86400 sec	@Temperature 176 °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	

Mechanical Properties Tensile Strength, Yield	63.0 MPa Metric	9140 psi English	Comments EN ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	2.7 %	2.7 %	EN ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	3.3 %	3.3 %	Flexural; EN ISO 178
Tensile Modulus	3.90 GPa	566 ksi	EN ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	89.0 MPa	12900 psi	EN ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	3.49 GPa	506 ksi	EN ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Yield Strength	142 MPa	20600 psi	10% Strain; EN ISO 604
Compressive Strength	164 MPa	23800 psi	EN ISO 604
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Modulus	1.748 GPa	253.5 ksi	EN ISO 604
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	1.94 J/cm²	9.23 ft-lb/in²	EN ISO 179
Charpy Impact, Notched	0.320 J/cm²	1.52 ft-lb/in²	EN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compression Set	16.4 %	16.4 %	Compression at Break; EN ISO 604

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	370 °C	698 °F	DMTA
Flammability, UL94	V-0	V-0	

Descriptive Properties	Value	Comments
Color	Shiny Black	
DIN-Abbreviation	PI CS15 TF10	

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