

Ensinger TECASINT 3062 Polyimide, Shiny Black, 15% Graphite, 10% PTFE (PI)

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic , Thermoplastic Polyimide, Graphite Filled , 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, very creep resistant, broad chemical compatibility, good sliding properties, low water absorption, no electrical insulation, flame retardant according to UL94 V-0, sensitive to hydrolysis in higher thermal range, low static friction. Applications: Mechanical engineering, automotive industry, materials handling equipment, precision engineering, aircraft and aerospace industries, textile industry. Preferred Fields: Valve seating, chain guides, piston rings, sliding rails, thrust washers, bearings, bushings. Information Provided by Ensinger Sintimid

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http://www.lookpolymers.com/polymer_Ensinger-TECASINT-3062-Polyimide-Shiny-Black-15-Graphite-10-PTFE-PI.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	DIN 53 479
Water Absorption	0.43 %	0.43 %	24 hours in water; EN ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.7 %	1.7 %	24 hours in water; EN ISO 62
	@Temperature 80.0 °C	@Temperature 176 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	DIN 53 505
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength	44.1 MPa	6400 psi	EN ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	3.6 %	3.6 %	EN ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	3.3 %	3.3 %	Flexural Elongation; EN ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	2.646 GPa	383.8 ksi	EN ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Flexural Strength	@Temperature 23.0 °C	@Temperature 73.4 °F	EN ISO 178
Flexural Modulus	2.74 GPa	397 ksi	EN ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Yield Strength	70.0 MPa	10200 psi	EN ISO 604
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	
Compressive Strength	180 MPa	26100 psi	EN ISO 604
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Modulus	0.847 GPa	123 ksi	EN ISO 604
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	1.78 J/cm ²	8.47 ft-lb/in ²	EN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.420 J/cm ²	2.00 ft-lb/in ²	EN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compression Set	48 %	48 %	Compression at Break; EN ISO 604
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 µm/m-°C	25.0 µin/in-°F	DIN 53 752
	@Temperature 50.0 - 200 °C	@Temperature 122 - 392 °F	
	57.0 µm/m-°C	31.7 µin/in-°F	DIN 53 752
	@Temperature 200 - 300 °C	@Temperature 392 - 572 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China