

Ensinger Tecamid® 6/12 Nylon (PA612)

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Unreinforced

Material Notes:

Type 6/12 has lower moisture absorption rates than nylon 6/6, hence superior dimensional stability. Information provided by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecamid-612-Nylon-PA612.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ASTM D792
Water Absorption	0.25 %	0.25 %	at 24 hours; ASTM D570
Water Absorption at Saturation	3.0 %	3.0 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength, Yield	55.2 MPa	8000 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Tensile Modulus	2.07 GPa	300 ksi	ASTM D638
Flexural Modulus	1.90 GPa	275 ksi	ASTM D790
Compressive Strength	16.5 MPa	2400 psi	ASTM D695
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	ASTM D256
Coefficient of Friction, Static	0.31	0.31	ASTM D3702
K (wear) Factor	383 x 10 ⁻⁸ mm ³ /N-M	190 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40 psi, 50 fpm; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 μm/m-°C	50.0 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.88 J/g-°C	0.450 BTU/lb-°F	
Melting Point	217 °C	422 °F	ASTM D2133
Deflection Temperature at 1.8 MPa (264 psi)	61.1 °C	142 °F	ASTM D648
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 0.860 mm Metric	@Thickness 0.0339 in English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.5	3.5	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	4.0	4.0	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

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