

Azoty Tarnow™ TARFLEN ST PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Molded

Material Notes:

Free-Flowing suspension powder for ram extrusion of rods, pipes and other profiles. Information provided by Zakłady Azotowe w Tarnowie-Moscicach S.A.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Azoty-Tarnow-TARFLEN-ST-PTFE.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in ³	
Density	2.15 g/cc	0.0777 lb/in ³	ISO 1183
Particle Size	800 µm	800 µm	Average

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	ISO 868
Ball Indentation Hardness	34.0 MPa	4930 psi	ISO 2039-1
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO 527
Elongation at Break	250 %	250 %	ISO 527
Izod Impact, Notched	1.40 J/cm	2.62 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear	125 µm/m-°C	69.4 µin/in-°F	ASTM E 831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.00 J/g-°C	0.239 BTU/lb-°F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	
Melting Point	327 °C	621 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.10e+18 ohm-cm	1.10e+18 ohm-cm	IEC 60093
Surface Resistance	4.50e+17 ohm	4.50e+17 ohm	IEC 60093
Dielectric Constant	2.1	2.1	IEC 60250

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.00010	0.00010	IEC 60250
Arc Resistance	420 sec	420 sec	IEC 61621
Comparative Tracking Index	600 V	600 V	IEC 112

Processing Properties	Metric	English	Comments
Processing Temperature	370 °C	698 °F	Molding
Back Pressure	35.0 - 40.0 MPa	5080 - 5800 psi	Molding Pressure

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