

Azoty Tarnow™ TARFLEN SM-1 PTFE

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

Material Notes:

Non Free-Flowing suspension powder for standard compression molding and compounding. 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-SM-1-PTFE.php

Physical Properties	Metric	English	Comments
Bulk Density	0.300 g/cc	0.0108 lb/in ³	
Density	2.15 g/cc	0.0777 lb/in ³	ISO 1183
Particle Size	40 µm	40 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	32.0 MPa	4640 psi	ISO 527
Elongation at Break	400 %	400 %	ISO 527
Izod Impact, Notched	1.40 J/cm	2.62 ft-lb/in	ISO 180
Charpy Impact, Notched	1.90 J/cm ²	9.04 ft-lb/in ²	1eA; ISO 179

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

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	15.0 - 20.0 MPa	2180 - 2900 psi	Molding Pressure

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