

Azoty Tarnow™ TARFLEN SM-S15G2 PTFE

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

Material Notes:

Tarflen SM1 reinforced with 15% glass fibers and 2% graphite for standard compression molding. 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-S15G2-PTFE.php

Physical Properties	Metric	English	Comments
Density	2.21 g/cc	0.0798 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	39.0 MPa	5660 psi	ISO 2039-1
Tensile Strength, Yield	17.0 MPa	2470 psi	ISO 527
Elongation at Break	260 %	260 %	ISO 527
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 µm/m-°C	36.1 µin/in-°F	ASTM E 831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	327 °C	621 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	IEC 60093
Surface Resistance	2.00e+13 ohm	2.00e+13 ohm	IEC 60093
Dielectric Constant	7.0	7.0	IEC 60250
Dielectric Strength	7.00 kV/mm	178 kV/in	IEC 60243-1
Dissipation Factor	0.30	0.30	IEC 60250

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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