

## Azoty Tarnow™ TARFLEN SG-1 PTFE

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

### Material Notes:

Free-Flowing suspension powder for automated compression molding of complicated shapes and isostatic pressing. 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-SG-1-PTFE.php](http://www.lookpolymers.com/polymer_Azoty-Tarnow-TARFLEN-SG-1-PTFE.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	
Density	2.15 g/cc	0.0777 lb/in <sup>3</sup>	ISO 1183
Particle Size	300 µm	300 µm	Average

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	ISO 868
Ball Indentation Hardness	37.0 MPa	5370 psi	ISO 2039-1
Tensile Strength, Yield	32.0 MPa	4640 psi	ISO 527
Elongation at Break	350 %	350 %	ISO 527
Izod Impact, Notched	1.38 J/cm	2.59 ft-lb/in	ISO 180
Charpy Impact, Notched	1.90 J/cm <sup>2</sup>	9.04 ft-lb/in <sup>2</sup>	1eA; ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	125 µm/m-°C @Temperature 20.0 °C	69.4 µin/in-°F @Temperature 68.0 °F	ASTM E 831
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 <sup>2</sup> -°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	20.0 - 35.0 MPa	2900 - 5080 psi	Molding Pressure

## Contact Songhan Plastic Technology Co.,Ltd.

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