

## Azoty Tarnow™ TARFLEN SM-S25 PTFE

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

### Material Notes:

Tarflen SM1 reinforced with 25% glass fiber 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-S25-PTFE.php](http://www.lookpolymers.com/polymer_Azoty-Tarnow-TARFLEN-SM-S25-PTFE.php)

Physical Properties	Metric	English	Comments
Density	2.24 g/cc	0.0809 lb/in <sup>3</sup>	ISO 1183
Filler Content	25 %	25 %	Glass Fibers
Particle Size	40 µm	40 µm	Average

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Ball Indentation Hardness	38.0 MPa	5510 psi	ISO 2039-1
Tensile Strength, Yield	16.0 MPa	2320 psi	ISO 527
Elongation at Break	260 %	260 %	ISO 527
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 µm/m-°C	36.1 µin/in-°F	ASTME 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	1.90e+13 ohm	1.90e+13 ohm	IEC 60093
Dielectric Constant	2.1	2.1	IEC 60250
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 60243-1
Dissipation Factor	0.42	0.42	IEC 60250

Processing Properties	Metric	English	Comments
Processing Temperature	370 °C	698 °F	Molding
Back Pressure	50.0 - 70.0 MPa	7250 - 10200 psi	Molding Pressure

## Contact Songhan Plastic Technology Co.,Ltd.

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