

DSM Stanyl® TW200F3 Nylon 46- 15% Glass Reinforced (European Grade) (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Glass Fiber Reinforced

Material Notes:

Stanyl is a high performance polyamide providing good performance and value across a broad range of automotive and electronic applications. Stanyl offers: Highest mechanical properties at high temperatures Excellent resistance to wear and low friction Outstanding flow for easy processing and exceptional design freedom Stanyl High Flow grades that match the best flowing LCPs while maintaining a high level of mechanical properties Key Applications: Automotive: Powertrain components, Charge-air coolers, EPS and ETC gears, Motor Sensors, Auto connectors, Chain tensioners E&E: Connectors, Microswitches, Bobbins, Memory modules, Motor components, Industrial, Specialty films and fibers, Consumer appliances Information provided by DSM.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TW200F3-Nylon-46-15-Glass-Reinforced-European-Grade-Dry.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Water Absorption	9.5 %	9.5 %	Sim. to ISO 62
Moisture Absorption at Equilibrium	3.1 %	3.1 %	Humidity Absorption; Sim. to ISO 62
Viscosity Test	150 cm ³ /g	150 cm ³ /g	Viscosity Number

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	6.10 GPa	885 ksi	ISO 527-1/-2
Charpy Impact, Notched	0.450 J/cm ² @Temperature 23.0 °C	2.14 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C @Temperature 20.0 °C	16.7 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
Melting Point	295 °C	563 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	290 °C	554 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	275 °C Metric	527 °F English	ISO 75-1/-2 Comments
Vicat Softening Point	290 °C	554 °F	50°C/h 50N; ISO 306
Glass Transition Temp, Tg	75.0 °C	167 °F	Glass Transition Temperature (10°C/min); ISO 11357-1/-2
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Comparative Tracking Index	400 V	400 V	IEC 60112

Descriptive Properties	Value	Comments
Heat stabilized or stable to heat	Yes	
Injection molding	Yes	
Platable	Yes	
With Fillers	Yes	

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