

DSM Stanyl® TW200FM33 Nylon 46-30% Glass and Mineral Reinforced (European Grade) (Cond)

Category : Polymer , Thermoplastic , Nylon , Nylon 46

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-TW200FM33-Nylon-46-30-Glass-and-Mineral-Reinforced-European-Grade-Cond.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	(DAM); ISO 1183
Water Absorption	9.5 %	9.5 %	DAM; Sim. to ISO 62
Moisture Absorption at Equilibrium	2.6 %	2.6 %	Humidity Absorption (DAM); Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527-1/-2
Elongation at Break	6.0 %	6.0 %	ISO 527-1/-2
Tensile Modulus	3.20 GPa	464 ksi	ISO 527-1/-2
Charpy Impact, Notched	0.400 J/cm ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	295 °C	563 °F	10°C/min (DAM); ISO 11357-1/-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Comparative Tracking Index	300 V	300 V	IEC 60112

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Injection molding	Yes	
Platable	Yes	
With Fillers	Yes	

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