

DSM Stanyl® TW275F6 (DAM) Nylon 46 30% Glass Reinforced, Heat Stabilized, Molydisulfide Lubricated (North America)

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

Material Notes:

Information provided by DSM Engineering Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TW275F6-DAM-Nylon-46-30-Glass-Reinforced-Heat-Stabilized-Molydisulfide-Lubricated-North-America.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.6 %	2.6 %	50% RH / 23°C; Similar to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	205 MPa	29700 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	10.5 GPa	1520 ksi	ISO 527-1/-2
Flexural Modulus	9.00 GPa	1310 ksi	ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	ISO 180/1A
	8.00 kJ/m ² @Temperature -40.0 °C	3.81 ft-lb/in ² @Temperature -40.0 °F	ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C @Temperature 20.0 °C	11.1 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
Melting Point	295 °C	563 °F	ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	285 °C	545 °F	ISO 75-1/-2

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