

DSM Stanyl® 46HF5040 (COND) Nylon 46 40% Glass Reinforced, Heat Stabilized, Flame Retardant, High Flow (North America)

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Flame Retarded + 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-46HF5040-COND-Nylon-46-40-Glass-Reinforced-Heat-Stabilized-Flame-Retardant-High-Flow-North-America.php

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in ³	(DAM); ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	12.0 GPa	1740 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179/1eU
	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	IEC 60093
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 60243-1
Comparative Tracking Index	350 V	350 V	IEC 60112

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