

DSM Stanyl® TW441 (COND) Nylon 46 High Viscosity, Heat Stabilized, Lubricated (North America)

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Unreinforced

Material Notes:

Information provided by DSM Engineering Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TW441-COND-Nylon-46-High-Viscosity-Heat-Stabilized-Lubricated-North-America.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	(DAM); ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527-1/-2
Elongation at Yield	>= 55 %	>= 55 %	Nominal; ISO 527-1/-2
Tensile Modulus	1.00 GPa	145 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/1eU
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

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+7 ohm-cm	1.00e+7 ohm-cm	IEC 60093
Dielectric Strength	15.0 kV/mm	381 kV/in	IEC 60243-1
Comparative Tracking Index	400 V	400 V	IEC 60112

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