

DSM Stanyl® TW363 (DAM) Nylon 46 Heat Stabilized, Impact Modified (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-TW363-DAM-Nylon-46-Heat-Stabilized-Impact-Modified-North-America.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	3.0 %	3.0 %	50% RH / 23°C; Similar to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-1/-2
Elongation at Yield	>= 50 %	>= 50 %	Nominal; ISO 527-1/-2
Tensile Modulus	1.85 GPa	268 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB	NB	ISO 179/1eU
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.50 J/cm ²	35.7 ft-lb/in ²	ISO 179/1eU
	2.60 J/cm ²	12.4 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	160 µm/m-°C	88.9 µin/in-°F	ISO 11359-1/-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	180 µm/m-°C	100 µin/in-°F	ISO 11359-1/-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	295 °C	563 °F	ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+13 ohm-cm Metric	1.00e+13 ohm-cm English	IEC 60093 Comments
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243-1
Comparative Tracking Index	475 V	475 V	IEC 60112

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