

DSM Stanyl® TE350 Nylon 46 (European and Asian Grade) (Cond) (discontinued **)

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

Material Notes:

Stanlyl is a high performance polyamide providing unmatched performance and value across an amazingly broad range of automotive and electronic applications. Stanlyl offers: Highest mechanical properties at high temperatures Excellent resistance to wear and low friction Outstanding flow for easy processing and exceptional design freedom Stanlyl 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-TE350-Nylon-46-European-and-Asian-Grade-Cond-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 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
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	DAM; ISO 294-4
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Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/-2
Elongation at Yield	20 %	20 %	ISO 527-1/-2
Tensile Modulus	1.40 GPa	203 ksi	ISO 527-1/-2
Charpy Impact Unnotched	12.5 J/cm ²	59.5 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Tensile Creep Modulus, 1000 hours	850 MPa	123000 psi	ISO 899-1

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+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	4.1	4.1	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	10	10	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243-1
Dissipation Factor	0.0080	0.0080	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.028	0.028	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	325 V	325 V	IEC 60112

Descriptive Properties	Value	Comments
Flame Retardant	Yes	
Flame Retarding Agent	Yes	
Heat stabilized or stable to heat	Yes	
Injection molding	Yes	
Lubricants	Yes	
Platable	Yes	
Release Agent	Yes	
Without Fillers	Yes	

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