

DSM Stanyl® TE350 Nylon 46 (European and Asian Grade) (Dry) (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-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Water Absorption	9.5 %	9.5 %	Sim. to ISO 62
Moisture Absorption at Equilibrium	2.6 %	2.6 %	Humidity Absorption; Sim. to ISO 62
Viscosity Test	185 cm ³ /g	185 cm ³ /g	Viscosity Number
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527-1/-2
Elongation at Break	20 %	20 %	ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-1/-2
Tensile Modulus	3.60 GPa	522 ksi	ISO 527-1/-2
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	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	
	0.600 J/cm ²	2.86 ft-lb/in ²	

Mechanical Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	ISO 179/1eA Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
Melting Point	295 °C	563 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	275 °C	527 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 75-1/-2
Vicat Softening Point	280 °C	536 °F	50°C/h 50N; ISO 306
Glass Transition Temp, Tg	75.0 °C	167 °F	Glass Transition Temperature (10°C/min); ISO 11357-1/-2
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	IEC 60695-11-10
	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	IEC 60695-11-10
Oxygen Index	29 %	29 %	ISO 4589-1/-2
Glow Wire Test	825 °C @Thickness 0.750 mm	1520 °F @Thickness 0.0295 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	825 °C @Thickness 3.00 mm	1520 °F @Thickness 0.118 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	960 °C @Thickness 0.750 mm	1760 °F @Thickness 0.0295 in	Glow Wire Flammability Index; IEC 60695-2-12
	960 °C @Thickness 3.00 mm	1760 °F @Thickness 0.118 in	Glow Wire Flammability Index; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Dielectric Constant	3.5	3.5	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
Dissipation Factor	0.00050	0.00050	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0020	0.0020	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 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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