

DSM Stanyl® TW363 Nylon 46 (European Grade) (Cond)

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

Material Notes:

Stanlyl is a high performance polyamide providing good performance and value across a 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-TW363-Nylon-46-European-Grade-Cond.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	(DAM); ISO 1183
Water Absorption	11 %	11 %	DAM; Sim. to ISO 62
Moisture Absorption at Equilibrium	3.0 %	3.0 %	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	45.0 MPa	6530 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/-2
Elongation at Yield	25 %	25 %	ISO 527-1/-2
Tensile Modulus	0.600 GPa	87.0 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	NB	NB	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	12.5 J/cm ²	59.5 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	14	14	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	IEC 60243-1
Dissipation Factor	0.010	0.010	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.065	0.065	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	475 V	475 V	IEC 60112

Descriptive Properties	Value	Comments
Heat stabilized or stable to heat	Yes	
High impact or impact modified	Yes	
Injection molding	Yes	
Other Extrusion	Yes	
Platable	Yes	
Profile extrusion	Yes	
Without Fillers	Yes	

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