

DSM Stanyl® TS350 PA46 FR(17)

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

Material Notes:

Unreinforced, Flame Retardant

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TS350-PA46-FR17.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	dry; ISO 1183
Moisture Absorption	2.35 %	2.35 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	dry; ISO 527-1/-2
Elongation at Break	7.0 %	7.0 %	dry; ISO 527-1/-2
Tensile Modulus	3.40 GPa	493 ksi	dry; ISO 527-1/-2
Flexural Modulus	3.20 GPa	464 ksi	dry; ISO 178
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	dry; ISO 11359-1/-2
Melting Point	295 °C	563 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	dry; ISO 75-1/-2
Flammability, UL94	V-0	V-0	dry; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	dry; IEC 60695-11-10

Thermal Properties	@Thickness 0.750 mm Metric	@Thickness 0.0295 in English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	cond; IEC 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry; IEC 60093
Dielectric Strength	25.0 kV/mm	635 kV/in	cond; IEC 60243-1
	30.0 kV/mm	762 kV/in	dry; IEC 60243-1

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