

DSM Stanyl® TS250F8 PA46-GF40 FR

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Flame Retarded + Glass Fiber Reinforced

Material Notes:

40% Glass Reinforced, Flame Retardant, Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TS250F8-PA46-GF40-FR.php

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in ³	dry; ISO 1183
Moisture Absorption	1.25 %	1.25 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	140 MPa	20300 psi	cond; ISO 527-1/-2
	195 MPa	28300 psi	dry; ISO 527-1/-2
	90.0 MPa	13100 psi	ISO 527-1/-2
	@Temperature 160 °C	@Temperature 320 °F	
Elongation at Break	110 MPa	16000 psi	ISO 527-1/-2
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	2.0 %	2.0 %	dry; ISO 527-1/-2
	2.6 %	2.6 %	cond; ISO 527-1/-2
	3.0 %	3.0 %	ISO 527-1/-2
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	3.0 %	3.0 %	ISO 527-1/-2
	@Temperature 160 °C	@Temperature 320 °F	
	12.0 GPa	1740 ksi	cond; ISO 527-1/-2
	15.0 GPa	2180 ksi	dry; ISO 527-1/-2
Tensile Modulus	6.50 GPa	943 ksi	ISO 527-1/-2
	@Temperature 160 °C	@Temperature 320 °F	
Tensile Modulus	9.50 GPa	1380 ksi	ISO 527-1/-2

Mechanical Properties	@Temperature 120 °C Metric	@Temperature 248 °F English	Comments
Flexural Modulus	11.0 GPa	1600 ksi	cond; ISO 178
	13.0 GPa	1890 ksi	dry; ISO 178
	5.50 GPa	798 ksi	ISO 178
	@Temperature 160 °C	@Temperature 320 °F	
Flexural Modulus	8.50 GPa	1230 ksi	ISO 178
	@Temperature 120 °C	@Temperature 248 °F	
Izod Impact Resistance	1.20 J/cm ²	5.71 ft-lb/in ²	cond; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	dry; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact Resistance	1.20 J/cm ²	5.71 ft-lb/in ²	dry; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact Resistance	1.30 J/cm ²	6.19 ft-lb/in ²	cond; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 µm/m-°C	13.9 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	50.0 µm/m-°C	27.8 µin/in-°F	dry; ISO 11359-1/-2
Melting Point	295 °C	563 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	163 °C	325 °F	5000 hours Thermal Index; IEC 60216/ISO 527-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	290 °C	554 °F	dry; ISO 75-1/-2

Thermal Properties Flammability, UL94	V-0 Metric	V-0 English	Comments dry; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	dry; IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	cond; IEC 60093
	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	dry; IEC 60093
Dielectric Strength	20.0 kV/mm	508 kV/in	cond; IEC 60243-1
	30.0 kV/mm	762 kV/in	dry; IEC 60243-1
Comparative Tracking Index	350 V	350 V	dry; IEC 60112

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