

DSM Stanyl® 46SF5030 PA46-GF30 FR(17)

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

Material Notes:

30% Glass Reinforced, Heat Stabilized, Flame Retardant, High Flow

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-46SF5030-PA46-GF30-FR17.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	dry; ISO 1183
Moisture Absorption	1.60 %	1.60 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	110 MPa	16000 psi	cond; ISO 527-1/-2
	170 MPa	24700 psi	dry; ISO 527-1/-2
Elongation at Break	1.9 %	1.9 %	dry; ISO 527-1/-2
	2.8 %	2.8 %	cond; ISO 527-1/-2
Tensile Modulus	7.50 GPa	1090 ksi	cond; ISO 527-1/-2
	12.0 GPa	1740 ksi	dry; ISO 527-1/-2
Flexural Modulus	6.80 GPa	986 ksi	cond; ISO 178
	11.0 GPa	1600 ksi	dry; ISO 178
Charpy Impact Unnotched	4.00 J/cm ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	cond; ISO 179/1eU
	4.00 J/cm ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eU
Charpy Impact, Notched	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	cond; ISO 179/1eA
	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	dry; ISO 179/1eA
	1.30 J/cm ²	6.19 ft-lb/in ²	dry; ISO 179/1eA

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	1.30 J/cm ²	6.19 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	20.0 µm/m-°C	11.1 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	45.0 µm/m-°C	25.0 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)	290 °C	554 °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
	@Thickness 0.350 mm	@Thickness 0.0138 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	225 V	225 V	dry; IEC 60112

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