

DSM Stanyl® SC50 PA46-GF30 FR

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

Material Notes:

30% Glass Reinforced, Flame Retardant, Halogen free and free of red phosphorous

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-SC50-PA46-GF30-FR.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in³	dry; ISO 1183
Moisture Absorption	2.10 %	2.10 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	100 MPa	14500 psi	cond; ISO 527-1/-2
	140 MPa	20300 psi	dry; ISO 527-1/-2
Elongation at Break	1.7 %	1.7 %	dry; ISO 527-1/-2
	2.5 %	2.5 %	cond; ISO 527-1/-2
Tensile Modulus	8.00 GPa	1160 ksi	cond; ISO 527-1/-2
	12.5 GPa	1810 ksi	dry; ISO 527-1/-2
Flexural Modulus	8.00 GPa	1160 ksi	cond; ISO 178
	12.5 GPa	1810 ksi	dry; ISO 178
Charpy Impact Unnotched	3.50 J/cm² @Temperature 23.0 °C	16.7 ft-lb/in² @Temperature 73.4 °F	dry; ISO 179/1eU
	4.00 J/cm² @Temperature 23.0 °C	19.0 ft-lb/in² @Temperature 73.4 °F	cond; ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm² @Temperature 23.0 °C	3.33 ft-lb/in² @Temperature 73.4 °F	cond; ISO 179/1eA
	0.700 J/cm² @Temperature 23.0 °C	3.33 ft-lb/in² @Temperature 73.4 °F	dry; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	19.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	45.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	25.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	dry; ISO 11359-1/-2
Melting Point	295 $^{\circ}\text{C}$	563 $^{\circ}\text{F}$	10 $^{\circ}\text{C}/\text{min}$; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	275 $^{\circ}\text{C}$	527 $^{\circ}\text{F}$	dry; ISO 75-1/-2
Flammability, UL94	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
	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ 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	425 V	425 V	dry; IEC 60112

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