

DSM Stanyl® TW271F6J10 (PA46+PTFE)-GF30

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Glass Fiber Reinforced

Material Notes:

30% Glass Reinforced, Heat Stabilized, Wear and Friction Modified

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TW271F6J10-PA46PTFE-GF30.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	dry; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	105 MPa	15200 psi	cond; ISO 527-1/-2
	190 MPa	27600 psi	dry; ISO 527-1/-2
Elongation at Break	3.2 %	3.2 %	dry; ISO 527-1/-2
	6.0 %	6.0 %	cond; ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	cond; ISO 527-1/-2
	10.0 GPa	1450 ksi	dry; ISO 527-1/-2
Flexural Modulus	8.50 GPa	1230 ksi	dry; ISO 178
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	
	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.25 J/cm ²	5.95 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.60 J/cm ²	7.61 ft-lb/in ²	cond; 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; ISO 11357-1/-3
Maximum Service Temperature, Air	177 °C	351 °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, UL 94	HB Metric	HB English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	dry; IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	cond; IEC 60093
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	dry; IEC 60093
Comparative Tracking Index	400 V	400 V	dry; IEC 60112

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