

DSM Stanyl® TS271A1 PA46-RF

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Aramid fiber reinforced, Wear and Friction Modified

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TS271A1-PA46-RF.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	dry; ISO 1183
Moisture Absorption	2.90 %	2.90 %	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, Ultimate	90.0 MPa	13100 psi	dry; ISO 527-1/-2
Elongation at Break	13 %	13 %	dry; ISO 527-1/-2
Tensile Modulus	2.80 GPa	406 ksi	dry; ISO 527-1/-2
Flexural Modulus	3.10 GPa	450 ksi	dry; ISO 178
Charpy Impact, Notched	0.600 J/cm ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	295 °C	563 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	dry; ISO 75-1/-2
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	dry; IEC 60695-11-10

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