

DSM Stanyl® TS272A1 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-TS272A1-PA46-RF.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	dry; ISO 1183
Moisture Absorption	3.00 %	3.00 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.022 cm/cm	0.022 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.022 cm/cm	0.022 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	80.0 MPa	11600 psi	dry; ISO 527-1/-2
Elongation at Break	20 %	20 %	dry; ISO 527-1/-2
Tensile Modulus	2.80 GPa	406 ksi	dry; ISO 527-1/-2
Flexural Modulus	2.40 GPa	348 ksi	dry; ISO 178
Charpy Impact, Notched	0.500 J/cm ² @Temperature 23.0 °C	2.38 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)	160 °C	320 °F	dry; ISO 75-1/-2

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