

DSM Stanyl® TC502 PA46

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Thermal conductive material

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TC502-PA46.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	dry; ISO 1183
Moisture Absorption	2.00 %	2.00 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	65.0 MPa	9430 psi	dry; ISO 527-1/-2
Elongation at Break	1.1 %	1.1 %	dry; ISO 527-1/-2
Tensile Modulus	9.00 GPa	1310 ksi	dry; ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 µm/m-°C	13.9 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	35.0 µm/m-°C	19.4 µin/in-°F	dry; ISO 11359-1/-2
Thermal Conductivity	2.10 W/m-K	14.6 BTU-in/hr-ft ² -°F	through plane; ASTM E1461
	14.0 W/m-K	97.2 BTU-in/hr-ft ² -°F	in plane; ASTM E1461
Melting Point	295 °C	563 °F	10°C/min; ISO 11357-1/-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	dry; IEC 60093

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