

DSM Stanyl® TC153 PA46 FR(17)

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Thermal conductive material, Flame Retardant, Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TC153-PA46-FR17.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	dry; ISO 1183
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.0 MPa	7980 psi	dry; ISO 527-1/-2
Elongation at Break	0.60 %	0.60 %	dry; ISO 527-1/-2
Tensile Modulus	12.5 GPa	1810 ksi	dry; ISO 527-1/-2
Charpy Impact, Notched	0.200 J/cm ² @Temperature 23.0 °C	0.952 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eA

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	25.0 µm/m-°C	13.9 µin/in-°F	dry; ISO 11359-1/-2
Thermal Conductivity	1.00 W/m-K	6.94 BTU-in/hr-ft ² -°F	through plane; ASTM E1461
	8.00 W/m-K	55.5 BTU-in/hr-ft ² -°F	in plane; ASTM E1461
UL RTI, Electrical	140 °C @Thickness 0.750 mm	284 °F @Thickness 0.0295 in	UL746B
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	dry; IEC 60695-11-10
	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	dry; IEC 60695-11-10

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+15 ohm-cm Metric	1.00e+15 ohm-cm English	dry; IEC 60093 Comments
Dielectric Strength	30.0 kV/mm	762 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	dry; IEC 60112

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