

**DSM Stanyl® TC551 PA46 FR(17)**

Category : Polymer , Thermoplastic , Nylon , Nylon 46

**Material Notes:**

Thermal conductive material, Flame Retardant

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Stanyl-TC551-PA46-FR17.php](http://www.lookpolymers.com/polymer_DSM-Stanyl-TC551-PA46-FR17.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	dry; ISO 1183
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	50.0 MPa	7250 psi	dry; ISO 527-1/-2
Elongation at Break	0.60 %	0.60 %	dry; ISO 527-1/-2
Tensile Modulus	9.10 GPa	1320 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	0.200 J/cm <sup>2</sup> @Temperature 23.0 °C	0.952 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	dry; ISO 179/1eU

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.10 W/m-K	14.6 BTU-in/hr-ft <sup>2</sup> -°F	through plane; ASTM E1461
	14.0 W/m-K	97.2 BTU-in/hr-ft <sup>2</sup> -°F	in plane; ASTM E1461
UL RTI, Electrical	65.0 °C @Thickness 0.750 mm	149 °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
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	dry; IEC 60093

**Contact Songhan Plastic Technology Co.,Ltd.**

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**