

DSM Stanyl® TE351 PA46 FR(17)

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Unreinforced

Material Notes:

Flame Retardant, Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TE351-PA46-FR17.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	dry; ISO 1183
Moisture Absorption	2.00 %	2.00 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	cond; ISO 527-1/-2
	60.0 MPa	8700 psi	dry; ISO 527-1/-2
Elongation at Break	20 %	20 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	cond; ISO 527-1/-2
Tensile Modulus	1.20 GPa	174 ksi	cond; ISO 527-1/-2
	3.00 GPa	435 ksi	dry; ISO 527-1/-2
Flexural Modulus	2.50 GPa	363 ksi	dry; ISO 178
Izod Impact Resistance	0.500 J/cm ² @Temperature -40.0 °C	2.38 ft-lb/in ² @Temperature -40.0 °F	cond; ISO 180/1A
	0.500 J/cm ² @Temperature -40.0 °C	2.38 ft-lb/in ² @Temperature -40.0 °F	dry; ISO 180/1A
	0.800 J/cm ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 180/1A
Charpy Impact Unnotched	1.40 J/cm ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	cond; ISO 180/1A
	8.50 J/cm ² @Temperature 23.0 °C	40.4 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eU

Mechanical Properties	8.50 J/cm ² Metric	40.4 ft-lb/in ² English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.50 J/cm ²	45.2 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.800 J/cm ²	3.81 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.40 J/cm ²	6.66 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 μm/m-°C	50.0 μin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 μm/m-°C	50.0 μin/in-°F	dry; ISO 11359-1/-2
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
Flammability, UL94	V-0	V-0	dry; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	dry; IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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