

DSM Stanyl® TW241B3 PA46-CF15

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46 , Glass Fiber Reinforced

Material Notes:

15% Carbon Reinforced, Heat Stabilized, Lubricated

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TW241B3-PA46-CF15.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	dry; ISO 1183
Moisture Absorption	3.15 %	3.15 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	110 MPa	16000 psi	cond; ISO 527-1/-2
	185 MPa	26800 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	4.0 %	4.0 %	cond; ISO 527-1/-2
Tensile Modulus	13.0 GPa	1890 ksi	dry; ISO 527-1/-2
Flexural Modulus	5.80 GPa	841 ksi	cond; ISO 178
	10.5 GPa	1520 ksi	dry; ISO 178
Izod Impact Resistance	0.450 J/cm ²	2.14 ft-lb/in ²	cond; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.450 J/cm ²	2.14 ft-lb/in ²	dry; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	cond; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
	4.00 J/cm ²	19.0 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.50 J/cm ²	21.4 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.450 J/cm ²	2.14 ft-lb/in ²	dry; 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 23.0 °C	@Temperature 73.4 °F	
	1.20 J/cm ²	5.71 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	25.0 μm/m-°C	13.9 μin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	50.0 μm/m-°C	27.8 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)	290 °C	554 °F	dry; ISO 75-1/-2

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