

DSM Stanyl® TW242FM10 PA46-(GF+MF)50

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

Material Notes:

50% Glass/Mineral Reinforced, Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-TW242FM10-PA46-GFMF50.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	dry; ISO 1183
Moisture Absorption	1.80 %	1.80 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.0125 cm/cm	0.0125 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	160 MPa	23200 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
Tensile Modulus	14.5 GPa	2100 ksi	dry; ISO 527-1/-2
Flexural Modulus	11.0 GPa	1600 ksi	dry; ISO 178
Izod Impact Resistance	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	dry; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	dry; 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)
Thermal Properties

285 °C
Metric

545 °F
English

drv: ISO 75-1/-2
Comments

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