

DSM Stanyl® OCD2100 BK27021 PA46-GF40

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

Material Notes:

40% Glass Reinforced, Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-OCD2100-BK27021-PA46-GF40.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	dry; ISO 1183
Moisture Absorption	2.20 %	2.20 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	125 MPa	18100 psi	cond; ISO 527-1/-2
	210 MPa	30500 psi	dry; ISO 527-1/-2
	60.0 MPa	8700 psi	ISO 527-1/-2
	@Temperature 200 °C	@Temperature 392 °F	
	75.0 MPa	10900 psi	ISO 527-1/-2
	@Temperature 180 °C	@Temperature 356 °F	
	85.0 MPa	12300 psi	ISO 527-1/-2
	@Temperature 160 °C	@Temperature 320 °F	
	100 MPa	14500 psi	ISO 527-1/-2
	@Temperature 120 °C	@Temperature 248 °F	
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	8.0 %	8.0 %	cond; ISO 527-1/-2
	10 %	10 %	ISO 527-1/-2
	@Temperature 120 °C	@Temperature 248 °F	
	11 %	11 %	ISO 527-1/-2
	@Temperature 160 °C	@Temperature 320 °F	
	12 %	12 %	ISO 527-1/-2
	@Temperature 180 °C	@Temperature 356 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 200 °C	@Temperature 392 °F	ISO 527-1/-2
Tensile Modulus	7.00 GPa	1020 ksi	cond; ISO 527-1/-2
	13.0 GPa	1890 ksi	dry; ISO 527-1/-2
	3.40 GPa	493 ksi	ISO 527-1/-2
	@Temperature 200 °C	@Temperature 392 °F	
	4.20 GPa	609 ksi	ISO 527-1/-2
	@Temperature 180 °C	@Temperature 356 °F	
	4.60 GPa	667 ksi	ISO 527-1/-2
	@Temperature 160 °C	@Temperature 320 °F	
	5.00 GPa	725 ksi	ISO 527-1/-2
	@Temperature 120 °C	@Temperature 248 °F	
Flexural Modulus	7.00 GPa	1020 ksi	cond; ISO 178
	13.0 GPa	1890 ksi	dry; ISO 178
	3.40 GPa	493 ksi	ISO 178
	@Temperature 200 °C	@Temperature 392 °F	
	4.20 GPa	609 ksi	ISO 178
	@Temperature 180 °C	@Temperature 356 °F	
	4.60 GPa	667 ksi	ISO 178
	@Temperature 160 °C	@Temperature 320 °F	
	5.00 GPa	725 ksi	ISO 178
	@Temperature 120 °C	@Temperature 248 °F	
Izod Impact Resistance	1.50 J/cm ²	7.14 ft-lb/in ²	dry; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.50 J/cm ²	11.9 ft-lb/in ²	cond; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.50 J/cm ²	35.7 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	dry; ISO 179/1eU
	10.5 J/cm ²	50.0 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.50 J/cm ²	11.9 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	282 °C	540 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	256 °C	493 °F	dry; ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	300 V	300 V	dry; IEC 60112

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