

DSM Stanyl® OCD2300 BLK PA46-GF50

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

Material Notes:

50% Glass Reinforced, Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-OCD2300-BLK-PA46-GF50.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	dry; ISO 1183
Moisture Absorption	2.20 %	2.20 %	Sim. To ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	135 MPa	19600 psi	cond; ISO 527-1/-2
	240 MPa	34800 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	
	90.0 MPa	13100 psi	ISO 527-1/-2
	@Temperature 160 °C	@Temperature 320 °F	
	110 MPa	16000 psi	ISO 527-1/-2
	@Temperature 120 °C	@Temperature 248 °F	
Elongation at Break	2.4 %	2.4 %	dry; ISO 527-1/-2
	6.3 %	6.3 %	cond; ISO 527-1/-2
	7.5 %	7.5 %	ISO 527-1/-2
	@Temperature 120 °C	@Temperature 248 °F	
	8.5 %	8.5 %	ISO 527-1/-2
	@Temperature 160 °C	@Temperature 320 °F	
	9.0 %	9.0 %	ISO 527-1/-2
	@Temperature 180 °C	@Temperature 356 °F	
	9.5 %	9.5 %	ISO 527-1/-2
	@Temperature 200 °C	@Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
	17.0 GPa	2470 ksi	dry; ISO 527-1/-2
	4.50 GPa	653 ksi	ISO 527-1/-2
	@Temperature 200 °C	@Temperature 392 °F	
	5.60 GPa	812 ksi	ISO 527-1/-2
	@Temperature 180 °C	@Temperature 356 °F	
	6.10 GPa	885 ksi	ISO 527-1/-2
	@Temperature 160 °C	@Temperature 320 °F	
	6.90 GPa	1000 ksi	ISO 527-1/-2
	@Temperature 120 °C	@Temperature 248 °F	
Flexural Modulus	8.00 GPa	1160 ksi	cond; ISO 178
	17.0 GPa	2470 ksi	dry; ISO 178
	4.50 GPa	653 ksi	ISO 178
	@Temperature 200 °C	@Temperature 392 °F	
	5.60 GPa	812 ksi	ISO 178
	@Temperature 180 °C	@Temperature 356 °F	
	6.10 GPa	885 ksi	ISO 178
	@Temperature 160 °C	@Temperature 320 °F	
	6.90 GPa	1000 ksi	ISO 178
	@Temperature 120 °C	@Temperature 248 °F	
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.50 J/cm ²	45.2 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.50 J/cm ²	45.2 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	11.0 J/cm ²	52.3 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	1.40 J/cm ² Metric	6.66 ft-lb/in ² English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.70 J/cm ²	8.09 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.00 J/cm ²	14.3 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	40.0 µm/m-°C	22.2 µin/in-°F	dry; ISO 11359-1/-2
Melting Point	282 °C	540 °F	10°C/min; ISO 11357-1/-3

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