

BASF Ultramid® 1403-2 BK ND3007 PA66 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-1403-2-BK-ND3007-PA66-Dry.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Water Absorption	7.4 %	7.4 %	ISO 62
Moisture Absorption at Equilibrium	2.2 %	2.2 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	125 MPa	18100 psi	5mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5mm/min; ISO 527
	3.0 %	3.0 %	0.2 in/min; ASTM Test
Tensile Modulus	6.00 GPa	870 ksi	1mm/min; ISO 527
Flexural Strength	190 MPa	27600 psi	ASTM Test
Flexural Modulus	5.17 GPa	750 ksi	ASTM Test
	5.80 GPa	841 ksi	ISO Data
Izod Impact, Notched (ISO)	5.20 kJ/m ²	2.47 ft-lb/in ²	ISO Test
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179
	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 179
	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	257 °C	495 °F	10 K/min

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	257 °C	495 °F	ASTM Test
	262 °C	504 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	231 °C	448 °F	ASTM Test
	245 °C	473 °F	ISO 75

Descriptive Properties	Value	Comments
Color	Black	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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