

Lanxess Durethan® BKV 130 H3.0 DUS008 000000 Nylon 6, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Glass Filled, Impact Grade , Nylon 6, Heat Stabilized

Material Notes:

PA 6, glass fiber, injection molding, impact modified, heat-aged stabilized Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-130-H30-DUS008-000000-Nylon-6-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.365 g/cc	0.04931 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	conditioned, 5 mm/min; ISO 527-1,-2
	160 MPa	23200 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527-1,-2
	7.0 %	7.0 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	5.20 GPa	754 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	9.00 GPa	1310 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	145 MPa	21000 psi	conditioned, 2 mm/min; ISO 178-A
	250 MPa	36300 psi	2 mm/min; ISO 178-A
Flexural Modulus	4.80 GPa	696 ksi	conditioned, 2 mm/min; ISO 178-A
	8.00 GPa	1160 ksi	2 mm/min; ISO 178-A
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.0 J/cm ²	52.3 ft-lb/in ²	conditioned; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179-1eA
	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	conditioned; ISO 179-1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.80 J/cmÂ²	8.57 ft-lb/inÂ²	ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.80 J/cmÂ²	13.3 ft-lb/inÂ²	conditioned; ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Melting Point	222 Â°C	432 Â°F	10 Â°C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	ISO 75-1,-2

Processing Properties	Metric	English	Comments
Melt Temperature	280 Â°C	536 Â°F	Injection molding; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Injection molding; ISO 294
Dry Time	2.00 - 6.00 hour	2.00 - 6.00 hour	
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer test

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