

Lanxess Durethan® BKV 230 H2.0 DUS008 000000 Nylon 6, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

PA 6, 30% glass fibers Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-230-H20-DUS008-000000-Nylon-6-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 2577
Linear Mold Shrinkage, Transverse	0.0085 cm/cm	0.0085 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	conditioned, 5 mm/min; ISO 527-1,-2
	130 MPa	18900 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527-1,-2
	8.0 %	8.0 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	4.40 GPa	638 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	8.60 GPa	1250 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	125 MPa	18100 psi	conditioned, 2 mm/min; ISO 178-A
	210 MPa	30500 psi	2 mm/min; ISO 178-A
Flexural Modulus	4.40 GPa	638 ksi	conditioned, 2 mm/min; ISO 178-A
	7.50 GPa	1090 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	15.0 kJ/m ²	7.14 ft-lb/in ²	conditioned; ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	23.0 kJ/m ²	10.9 ft-lb/in ²	ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	75.0 kJ/mÂ² @Temperature 23.0 Â°C	35.7 ft-lb/inÂ² @Temperature 73.4 Â°F	conditioned; ISO 180-1A
Izod Impact, Unnotched (ISO)	75.0 kJ/mÂ² @Temperature 23.0 Â°C	35.7 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180-1U
	75.0 kJ/mÂ² @Temperature -30.0 Â°C	35.7 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 180-1U
	75.0 kJ/mÂ² @Temperature -30.0 Â°C	35.7 ft-lb/inÂ² @Temperature -22.0 Â°F	conditioned; ISO 180-1U
	90.0 kJ/mÂ² @Temperature 23.0 Â°C	42.8 ft-lb/inÂ² @Temperature 73.4 Â°F	conditioned; ISO 180-1U

Thermal Properties	Metric	English	Comments
Melting Point	220 Â°C	428 Â°F	10 Â°C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	218 Â°C	424 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	198 Â°C	388 Â°F	ISO 75-1,-2
Shrinkage	0.0400 % @Temperature 120 Â°C, Time 14400 sec	0.0400 % @Temperature 248 Â°F, Time 4.00 hour	post-shrinkage, transverse, 60x60x2; ISO 2577
	0.140 % @Temperature 120 Â°C, Time 14400 sec	0.140 % @Temperature 248 Â°F, Time 4.00 hour	post-shrinkage, 60x60x2; ISO 2577

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 @Temperature 80.0 Â°C	2.00 - 6.00 hour @Temperature 176 Â°F	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	Karl Fischer test

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