

Lanxess Durethan® BKV 115 H2.0 DUS008 000000 Nylon 6, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled , Nylon 6, Glass Filled, Impact Grade , Nylon 6, Heat Stabilized

Material Notes:

PA 6, 15% glass fibers, injection molding, impact modified, heat-ageing stabilized Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-115-H20-DUS008-000000-Nylon-6-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	4.1 %	4.1 %	5 mm/min; ISO 527-1,-2
Tensile Modulus	5.90 GPa	856 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	175 MPa	25400 psi	2 mm/min; ISO 178-A
Flexural Modulus	5.10 GPa	740 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	55.0 kJ/m ²	26.2 ft-lb/in ²	ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	6.50 J/cm ² Metric	20.9 ft-lb/in ² English	Comments ISO 179-1eJ
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	<= 1.00 J/cm ² @Temperature 23.0 Â°C	<= 4.76 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179-1eA
	<= 1.00 J/cm ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	16.7 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1,-2
CTE, linear, Transverse to Flow	100 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	55.6 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1,-2
Deflection Temperature at 0.46 MPa (66 psi)	214 Â°C	417 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	188 Â°C	370 Â°F	ISO 75-1,-2
Shrinkage	0.100 % @Temperature 120 Â°C, Time 14400 sec	0.100 % @Temperature 248 Â°F, Time 4.00 hour	post-shrinkage, transverse, 60x60x2; ISO 294-4
	0.200 % @Temperature 120 Â°C, Time 14400 sec	0.200 % @Temperature 248 Â°F, Time 4.00 hour	post-shrinkage, 60x60x2; ISO 294-4

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 %	residual; Karl Fischer test

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