

Lanxess Durethan® BKV 115 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-DUS008-000000-Nylon-6-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.228 g/cc	0.04436 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	conditioned, 5 mm/min; ISO 527-1,-2
	115 MPa	16700 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527-1,-2
	14 %	14 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	2.80 GPa	406 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	5.60 GPa	812 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	95.0 MPa	13800 psi	conditioned, 2 mm/min; ISO 178-A
	185 MPa	26800 psi	2 mm/min; ISO 178-A
Flexural Modulus	2.50 GPa	363 ksi	conditioned, 2 mm/min; ISO 178-A
	4.90 GPa	711 ksi	2 mm/min; ISO 178-A
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	conditioned; ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	1.00 1/cm ³	4.76 ft ³ /in ³	ISO 1135-1
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

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)	215 Â°C	419 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 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 @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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