

Lanxess Durethan® BKV 15 H.3 DUS008 000000 Nylon 6, 15% Glass Fiber

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-15-H3-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
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	150x105x3, 280°C / MT 80°C; 500 bar; ISO 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	150x105x3, 280°C / MT 80°C; 500 bar; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	conditioned, 5 mm/min; ISO 527-1,-2
	130 MPa	18900 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1,-2
	12 %	12 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	3.10 GPa	450 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	6.50 GPa	943 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	110 MPa	16000 psi	conditioned, 2 mm/min; ISO 178-A
	205 MPa	29700 psi	2 mm/min; ISO 178-A
Flexural Modulus	3.10 GPa	450 ksi	conditioned, 2 mm/min; ISO 178-A
	5.50 GPa	798 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	conditioned; ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
	40.0 kJ/m ^Å ²	19.0 ft-lb/in ^Å ²	Conditioned, ISO 180-1U
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	45.0 kJ/m ^Å ²	21.4 ft-lb/in ^Å ²	ISO 180-1U
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	85.0 kJ/m ^Å ²	40.4 ft-lb/in ^Å ²	conditioned; ISO 180-1U
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact Unnotched	4.50 J/cm ^Å ²	21.4 ft-lb/in ^Å ²	ISO 179-1eU
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	4.50 J/cm ^Å ²	21.4 ft-lb/in ^Å ²	conditioned; ISO 179-1eU
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	5.00 J/cm ^Å ²	23.8 ft-lb/in ^Å ²	ISO 179-1eU
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	10.0 J/cm ^Å ²	47.6 ft-lb/in ^Å ²	conditioned; ISO 179-1eU
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Åµm/m-Å°C	16.7 Åµin/in-Å°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
CTE, linear, Transverse to Flow	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
Melting Point	220 Å°C	428 Å°F	10 Å°C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	215 Å°C	419 Å°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	195 Å°C	383 Å°F	ISO 75-1,-2
Shrinkage	0.150 %	0.150 %	post-shrinkage, 150x105x3; ISO 2577
	@Temperature 120 Å°C, Time 14400 sec	@Temperature 248 Å°F, Time 4.00 hour	
	0.150 %	0.150 %	

Thermal Properties	Metric	English	Comments
	@ Temperature 120 Â°C, Time 14400 sec	@ Temperature 248 Â°F, Time 4.00 hour	post-shrinkage, transverse, ISO 15013, 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 %	residual; Karl Fischer test

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