

Lanxess Durethan® BKV 140 DUS008 000000 Nylon 6, 40% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled , Nylon 6, Glass Filled, Impact Grade

Material Notes:

PA 6, 40% glass fibers, injection molding, impact modified Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-140-DUS008-000000-Nylon-6-40-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Flow	0.0021 cm/cm	0.0021 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0075 cm/cm	0.0075 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	185 MPa	26800 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	3.4 %	3.4 %	5 mm/min; ISO 527-1,-2
Tensile Modulus	12.0 GPa	1740 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	290 MPa	42100 psi	2 mm/min; ISO 178-A
Flexural Modulus	11.0 GPa	1600 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature 23.0 °C	5.23 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
Izod Impact, Unnotched (ISO)	90.0 kJ/m ² @Temperature 23.0 °C	42.8 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U
	90.0 kJ/m ² @Temperature -30.0 °C	42.8 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1U
Charpy Impact Unnotched	10.0 J/cm ² @Temperature -30.0 °C	47.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eU
	10.5 J/cm ² @Temperature 23.0 °C	50.0 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eU
Charpy Impact, Notched	1.00 J/cm ² @Temperature -30.0	4.76 ft-lb/in ² @Temperature -22.0	ISO 179-1eA

Mechanical Properties	°C Metric	°F English	Comments
	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 °C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	217 °C	423 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	201 °C	394 °F	ISO 75-1,-2
Shrinkage	0.0700 %	0.0700 %	post-shrinkage, transverse, 60x60x2; ISO 294-4
	@Temperature 120 °C, Time 14400 sec	@Temperature 248 °F, Time 4.00 hour	
	0.0900 %	0.0900 %	post-shrinkage, 60x60x2; ISO 294-4
	@Temperature 120 °C, Time 14400 sec	@Temperature 248 °F, Time 4.00 hour	

Processing Properties	Metric	English	Comments
Melt Temperature	290 °C	554 °F	Injection molding; ISO 294
Mold Temperature	80.0 °C	176 °F	Injection molding; ISO 294
Dry Time	2.00 - 6.00 hour	2.00 - 6.00 hour	
	@Temperature 80.0 °C	@Temperature 176 °F	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	Karl Fischer test

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