

Lanxess Durethan® BKV 135 DUS008 000000 Nylon 6, 35% Glass Fiber

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

Material Notes:

PA 6, 35% 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-135-DUS008-000000-Nylon-6-35-Glass-Fiber.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	conditioned, 5 mm/min; ISO 527-1,-2
	170 MPa	24700 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1,-2
	7.0 %	7.0 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	6.00 GPa	870 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	10.2 GPa	1480 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	170 MPa	24700 psi	conditioned, 2 mm/min; ISO 178-A
	280 MPa	40600 psi	2 mm/min; ISO 178-A
Flexural Modulus	5.50 GPa	798 ksi	conditioned, 2 mm/min; ISO 178-A
	9.10 GPa	1320 ksi	2 mm/min; ISO 178-A
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.0 J/cm ²	52.3 ft-lb/in ²	conditioned; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.00 J/cm ²	4.76 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	conditioned; ISO 179-1eA
	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	conditioned; ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C	410 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	ISO 75-1,-2

Processing Properties	Metric	English	Comments
Dry Time	2.00 - 6.00 hour	2.00 - 6.00 hour	
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	Karl Fischer test

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