

Lanxess Durethan® BKV 140 H2.0 DUS008 900051 Nylon 6, Glass Fiber Reinforced, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Filled, Impact Grade

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-140-H20-DUS008-900051-Nylon-6-Glass-Fiber-Reinforced-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	180 MPa	26100 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	3.0 %	3.0 %	d.a.m.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	11.5 GPa	1670 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	290 MPa @Strain 4.00 %	42100 psi @Strain 4.00 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Modulus	10.7 GPa	1550 ksi	d.a.m., 2 mm/min; ISO 178-A
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	d.a.m.; ISO 179-1eU
	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	cond.; ISO 179-1eU
	8.50 J/cm ² @Temperature 23.0 °C	40.4 ft-lb/in ² @Temperature 73.4 °F	d.a.m.; ISO 179-1eU
	10.5 J/cm ² @Temperature 23.0 °C	50.0 ft-lb/in ² @Temperature 73.4 °F	cond.; ISO 179-1eU
Charpy Impact, Notched	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	d.a.m.; ISO 179-1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	cond.; ISO 179-1eA

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

Thermal Properties	Metric	English	Comments
Melting Point	220 Â°C	428 Â°F	10Â°C/min; ISO 11357-1, -3

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 Â°C	500 - 554 Â°F	
	290 Â°C	554 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6/66-HI, GHR, 14-110, GF40	

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