

Lanxess Durethan® BKV 50 H2.0 EF DUS30 901510 Nylon 6, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

PA 6, 50% glass fibers, injection molding, improved flowability, heat-aging stabilized Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-50-H20-EF-DUS30-901510-Nylon-6-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ISO 1183
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ISO 60
Linear Mold Shrinkage, Flow	0.00040 cm/cm	0.00040 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0021 cm/cm	0.0021 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.00090 cm/cm	0.00090 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0059 cm/cm	0.0059 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	215 MPa	31200 psi	ISO 527-1, -2; 5 mm/min
Elongation at Break	2.5 %	2.5 %	ISO 527-1, -2; 5 mm/min
Tensile Modulus	16.0 GPa	2320 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	320 MPa @Strain 3.00 %	46400 psi @Strain 3.00 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Modulus	15.0 GPa	2180 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	15.0 kJ/m ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	d.a.m.; ISO 180-1A
	15.0 kJ/m ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	d.a.m.; ISO 180-1A
Izod Impact, Unnotched (ISO)	80.0 kJ/m ² @Temperature 23.0 °C	38.1 ft-lb/in ² @Temperature 73.4 °F	d.a.m.; ISO 180-1U

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	d.a.m.; ISO 180-10
Charpy Impact Unnotched	9.00 J/cmÂ²	42.8 ft-lb/inÂ²	d.a.m.; ISO 179-1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	9.00 J/cmÂ²	42.8 ft-lb/inÂ²	d.a.m.; ISO 179-1eU
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Puncture Energy	3.50 J	2.58 ft-lb	d.a.m.; ISO 6603-2
	@Load <=91.8 kg, Temperature -30.0 Â°C	@Load <=202 lb, Temperature -22.0 Â°F	
	3.70 J	2.73 ft-lb	d.a.m.; ISO 6603-2
	@Load <=102 kg, Temperature 23.0 Â°C	@Load <=225 lb, Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 Âµm/m-Â°C	5.56 Âµin/in-Â°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	
Melting Point	220 Â°C	428 Â°F	10Â°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	213 Â°C	415 Â°F	ISO 75-1, -2

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 Â°F	
	280 Â°C	536 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 120 Â°C	176 - 248 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
Processing Properties	Metric	English	Comments

Descriptive Properties	Value	Comments
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ISO Shortname	ISO 1874-PA 6, GHR, 10-160, GF50	
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