

Lanxess Durethan® BKV 30 H2.0 EF DUS029 901510 Nylon 6, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

PA 6, 30% 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-30-H20-EF-DUS029-901510-Nylon-6-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.395 g/cc	1.395 g/cc	ISO 1183
Bulk Density	0.600 g/cc	0.0217 lb/in ³	ISO 60
Linear Mold Shrinkage, Flow	0.00050 cm/cm	0.00050 in/in	Post-shrinkage, 60x60x2; 120 ^o C; 4 hour; ISO 294-4
	0.0023 cm/cm	0.0023 in/in	60x60x2; 280 ^o C / MT 80 ^o C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0014 cm/cm	0.0014 in/in	Post-shrinkage, 60x60x2; 120 ^o C; 4 hour; ISO 294-4
	0.0070 cm/cm	0.0070 in/in	60x60x2; 280 ^o C / MT 80 ^o C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	155 MPa	22500 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	2.9 %	2.9 %	d.a.m.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	9.50 GPa	1380 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	cond.; ISO 180-1A
	@Temperature -30.0 ^o C	@Temperature -22.0 ^o F	
Izod Impact, Unnotched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	d.a.m.; ISO 180-1A
	@Temperature 23.0 ^o C	@Temperature 73.4 ^o F	
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	cond.; ISO 180-1U
	@Temperature -30.0 ^o C	@Temperature -22.0 ^o F	
Izod Impact, Unnotched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	d.a.m.; ISO 180-1U
	@Temperature 23.0 ^o C	@Temperature 73.4 ^o F	
	5.00 J/cm ²	23.8 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	d.a.m.; ISO 179-1eU
	6.50 J/cm ²	30.9 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C	11.1 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	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C	428 Å°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	205 Å°C	401 Å°F	ISO 75-1, -2

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Å°C	518 - 554 Å°F	
	280 Å°C	536 Å°F	for test specimens; ISO 294
Mold Temperature	80.0 Å°C	176 Å°F	for test specimens; ISO 294
	80.0 - 120 Å°C	176 - 248 Å°F	
Drying Temperature	80.0 Å°C	176 Å°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, MHR, 12-090, GF30	

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