

Lanxess Durethan® BKV 50 H2.0 901510 Nylon 6, 50% Glass Fiber

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

Material Notes:

PA 6, injection molding grade, 50% glass fibers, good heat-ageing resistance

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Water Absorption	5.0 %	5.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	23 ^o C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	140 cm ³ /g	140 cm ³ /g	Viscosity number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	Conditioned; ISO 527-1/-2
	220 MPa	31900 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	5.0 %	5.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	9.80 GPa	1420 ksi	Conditioned; ISO 527-1/-2
	16.3 GPa	2360 ksi	ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 ^o C	@Temperature -22.0 ^o F	
	8.00 J/cm ²	38.1 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature -30.0 ^o C	@Temperature -22.0 ^o F	
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 ^o C	@Temperature 73.4 ^o F	
	10.0 J/cm ²	47.6 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature 23.0 ^o C	@Temperature 73.4 ^o F	
	1.30 J/cm ²	6.19 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	@Temperature -30.0 Metric °C	@Temperature -22.0 English °F	ISO 179/1eA Comments
	1.30 J/cm ²	6.19 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.50 J/cm ²	11.9 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	1207	1207	Puncture maximum force (N); ISO 6603-2
	1060	1060	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	4.20 J	3.10 ft-lb	ISO 6603-2
	8.90 J	6.56 ft-lb	Conditioned; ISO 6603-2
	3.70 J	2.73 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.70 J	2.73 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	8100 MPa	1.17e+6 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	6600 MPa	957000 psi	ISO 899-1

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
CTE, linear, Transverse to Flow	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	222 Å°C	432 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	215 Å°C	419 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	205 Å°C	401 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	175 Å°C	347 Å°F	ISO 75-1/-2

Vicat Softening Point Thermal Properties	200 Å°C Metric	392 Å°F English	50Å°C/h 50N; ISO 306 Comments
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	24 %	24 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	550 V	550 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MHR,14-140,GF50	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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