

Lanxess Durethan® BKV 315 Z H2.0 901510 Nylon 6, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

PA 6 extrusion- and blow molding-grade with 15% glass fibers, branched/structural viscosity, elastomer-modified, good heat-ageing resistance, dry-impact modified

Application Examples: air intake hoses, thermoformed covers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-315-Z-H20-901510-Nylon-6-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0087 cm/cm	0.0087 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0056 cm/cm	0.0056 in/in	ISO 294-4, 2577
Melt Flow	4 g/10 min @Load 5.00 kg, Temperature 270 °C	4 g/10 min @Load 11.0 lb, Temperature 518 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Conditioned; ISO 527-1/-2
	105 MPa	15200 psi	ISO 527-1/-2
Tensile Strength, Yield	60.0 MPa	8700 psi	Conditioned; ISO 527-1/-2
	105 MPa	15200 psi	ISO 527-1/-2
Elongation at Break	5.0 %	5.0 %	ISO 527-1/-2
	19 %	19 %	Conditioned; ISO 527-1/-2
Elongation at Yield	3.5 %	3.5 %	ISO 527-1/-2
	11 %	11 %	Conditioned; ISO 527-1/-2
Tensile Modulus	2.50 GPa	363 ksi	Conditioned; ISO 527-1/-2
	5.40 GPa	783 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ² @Temperature -30.0 °C	33.3 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	7.00 J/cm ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	Conditioned; ISO 179/1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	Conditioned; ISO 179/1eA
	1.50 J/cm ²	7.14 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA
	3.00 J/cm ²	14.3 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	Conditioned; ISO 179/1eA
Impact	1200	1200	Puncture maximum force (N); ISO 6603-2
	630	630	
	@Temperature -30.0 °C	@Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	4.90 J	3.61 ft-lb	ISO 6603-2
	2.50 J	1.84 ft-lb	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 6603-2
	2.50 J	1.84 ft-lb	
	@Temperature -30.0 °C	@Temperature -22.0 °F	Conditioned; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Åµm/m-Å°C	33.3 Åµin/in-Å°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	130 Åµm/m-Å°C	72.2 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	219 Å°C	426 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	210 Å°C	410 Å°F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)			
Deflection Temperature at 8.0 MPa	55.0 Â°C	131 Â°F	ISO 75-1/-2
Vicat Softening Point	205 Â°C	401 Â°F	50Â°C/h 50N; ISO 306
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	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	375 V	375 V	IEC 60112

Descriptive Properties	Value	Comments
Form	Pellets	
ISO Shortname	ISO 1874-PA 6-HI,EH,22-050,GF15	
Processing	Blow molding	
	Other extrusion	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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