

Lanxess Durethan® BKV 115 H2.0 901510 Copolyamide, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

CoPA, injection molding grade, 15% glass fibers, elastomer-modified, electroplateable, higher notched impact strength and also higher energy absorption under biaxial impact load than BKV 15, even in the dry state, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-115-H20-901510-Copolyamide-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Water Absorption	8.5 %	8.5 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.5 %	2.5 %	23°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	134 cm ³ /g	134 cm ³ /g	Viscosity number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	Conditioned; ISO 527-1/-2
	115 MPa	16700 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
	12 %	12 %	Conditioned; ISO 527-1/-2
Tensile Modulus	2.70 GPa	392 ksi	Conditioned; ISO 527-1/-2
	5.60 GPa	812 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.00 J/cm ²	19.0 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.50 J/cm ²	35.7 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties Charpy Impact, Notched	$\leq 1.00 \text{ J/cm}^2$ Metric	$\leq 4.76 \text{ ft-lb/in}^2$ English	Comments ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	$\leq 1.00 \text{ J/cm}^2$ @Temperature -30.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature -22.0 °F	Conditioned; ISO 179/1eA
	$\leq 1.00 \text{ J/cm}^2$ @Temperature 23.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature 73.4 °F	ISO 179/1eA
	1.50 J/cm^2 @Temperature 23.0 °C	7.14 ft-lb/in^2 @Temperature 73.4 °F	Conditioned; ISO 179/1eA
Impact	593	593	Puncture maximum force (N); ISO 6603-2
	542 @Temperature -30.0 °C	542 @Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	2.10 J	1.55 ft-lb	ISO 6603-2
	1.70 J @Temperature -30.0 °C	1.25 ft-lb @Temperature -22.0 °F	ISO 6603-2
	1.70 J @Temperature -30.0 °C	1.25 ft-lb @Temperature -22.0 °F	Conditioned; ISO 6603-2
Tensile Creep Modulus, 1 hour	2600 MPa	377000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	2000 MPa	290000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	$30.0 \text{ } \mu\text{m/m-}^\circ\text{C}$	$16.7 \text{ } \mu\text{in/in-}^\circ\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	$100 \text{ } \mu\text{m/m-}^\circ\text{C}$	$55.6 \text{ } \mu\text{in/in-}^\circ\text{F}$	ISO 11359-1/-2
Melting Point	$213 \text{ }^\circ\text{C}$	$415 \text{ }^\circ\text{F}$	10°C/min ; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	$205 \text{ }^\circ\text{C}$	$401 \text{ }^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	$190 \text{ }^\circ\text{C}$	$374 \text{ }^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	$60.0 \text{ }^\circ\text{C}$	$140 \text{ }^\circ\text{F}$	ISO 75-1/-2

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	IEC 60695-11-10
	HB	HB	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	22 %	22 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	300 V	300 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
	High impact or high impact modified	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6/66-I, MHR, 14-060, GF15	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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