

Lanxess Durethan® BKV 215 H2.0 901510 Copolyamide, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

CoPA, injection molding grade, 15% glass fibers, elastomer-modified, higher impact and notched impact strength and also higher energy absorption under biaxial impact load than BKV 115, conditioning may be unnecessary in single cases, good heat-ageing resistance
Application Examples: window surrounds

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-215-H20-901510-Copolyamide-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	23°C/50% R.H.; Test Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Conditioned; ISO 527-1/-2
	85.0 MPa	12300 psi	ISO 527-1/-2
Elongation at Break	4.5 %	4.5 %	ISO 527-1/-2
	15 %	15 %	Conditioned; ISO 527-1/-2
Tensile Modulus	2.40 GPa	348 ksi	Conditioned; ISO 527-1/-2
	4.50 GPa	653 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	8.50 J/cm ² @Temperature 23.0 °C	40.4 ft-lb/in ² @Temperature 73.4 °F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	Metric @Temperature -30.0 Â°C	English @Temperature -22.0 Â°F	Comments
	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	Conditioned; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Impact	1438	1438	Puncture maximum force (N); ISO 6603-2
	775	775	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Puncture Energy	11.0 J	8.11 ft-lb	ISO 6603-2
	4.50 J	3.32 ft-lb	ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	4.50 J	3.32 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 Âµm/m-Â°C	22.2 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	150 Âµm/m-Â°C	83.3 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	213 Â°C	415 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	205 Â°C	401 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	175 Â°C	347 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	60.0 Â°C	140 Â°F	ISO 75-1/-2
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	

Thermal Properties	Metric	English	Comments
Oxygen Index	22 %	22 %	ISO 4589-1/-2

Descriptive Properties	Value	Comments
Features	Heat stabilized or stable to heat	
	High impact or high impact modified	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6/66-HI,MHR,-050,GF15	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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