

Lanxess Durethan® BKV 230 H2.0 901510 Copolyamide, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

CoPA, injection molding grade, 30% glass fibers, elastomer-modified, higher impact and notched impact strength and also higher energy absorption under biaxial impact load than BKV 130, conditioning may be unnecessary in single cases, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-230-H20-901510-Copolyamide-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Water Absorption	6.0 %	6.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.8 %	1.8 %	23°C/50% R.H.; Test Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	Conditioned; ISO 527-1/-2
	130 MPa	18900 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
	8.0 %	8.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	4.40 GPa	638 ksi	Conditioned; ISO 527-1/-2
	8.10 GPa	1170 ksi	ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
9.50 J/cm ²	45.2 ft-lb/in ²	Conditioned; ISO 179/1eU	
@Temperature -30.0 °C	@Temperature -22.0 °F		
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0	@Temperature -22.0	

Mechanical Properties	°C Metric	°F English	Comments
	2.00 J/cm ²	9.52 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.50 J/cm ²	21.4 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	1303	1303	Puncture maximum force (N); ISO 6603-2
	939	939	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	7.00 J	5.16 ft-lb	ISO 6603-2
	4.00 J	2.95 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.00 J	2.95 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 μm/m-°C	11.1 μin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	130 μm/m-°C	72.2 μin/in-°F	ISO 11359-1/-2
Melting Point	213 °C	415 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 75-1/-2
Vicat Softening Point	200 °C	392 °F	50°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	450 V	450 V	IEC 60112

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, -080, GF30	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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