

Lanxess Durethan® BKV 130 H2.0 901510 Copolyamide, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

CoPA, injection molding grade, 30% glass fibers, elastomer-modified, electroplateable, improved notched impact strength and energy absorption under biaxial impact load, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-130-H20-901510-Copolyamide-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 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
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	100 MPa	14500 psi	Conditioned; ISO 527-1/-2
	160 MPa	23200 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	8.0 %	8.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	5.10 GPa	740 ksi	Conditioned; ISO 527-1/-2
	9.20 GPa	1330 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.50 J/cm ²	35.7 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.50 J/cm ²	40.4 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 J/cm ²	42.8 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties Charpy Impact, Notched	1.00 J/cm ² Metric	4.76 ft-lb/in ² English	Comments ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.00 J/cm ²	4.76 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.80 J/cm ²	8.57 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	1002	1002	Puncture maximum force (N); ISO 6603-2
	840	840	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	9.00 J	6.64 ft-lb	ISO 6603-2
	17.0 J	12.5 ft-lb	Conditioned; ISO 6603-2
	6.00 J	4.43 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 J	4.43 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	4200 MPa	609000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	3300 MPa	479000 psi	ISO 899-1

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	90.0 μm/m-°C	50.0 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)	210 °C	410 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °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	22 %	22 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Conditioned; IEC 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	5.0	5.0	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	10	10	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	Conditioned; IEC 60243-1
	40.0 kV/mm	1020 kV/in	

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, 14-090, GF30	
Processing	Injection molding	
Region	Asia Pacific	

Descriptive Properties	Value	Comments
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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