Lanxess DurethanÂ® BKV 130 000000 Copolyamide, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

CoPA, injection molding grade, 30% glass fibers, elastomer modified, electroplateable, higher notched impact strength and also higher energy absorption under biaxial impact load than BKV 30, even in the dry stateApplication Examples: folding mechanism for sled

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-130-000000-Copolyamide-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/inÂ³	ISO 1183
Water Absorption	7.0 %	7.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	23Â°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	134 cmÂ³/g	134 cmÂ³/g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	13 g/10 min @Load 5.00 kg, Temperature 260 Â°C	13 g/10 min @Load 11.0 lb, Temperature 500 Â°F	Calculated from MVR using melt density; ISO 1133

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	4.0 %	4.0 %	ISO 527-1/-2
	7.0 %	7.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	5.20 GPa	754 ksi	Conditioned; ISO 527-1/-2
	9.00 GPa	1310 ksi	ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cmÂ² @Temperature -30.0 Â°C	38.1 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eU
	8.00 J/cmÂ² @Temperature -30.0 Â°C	38.1 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eU
	9.50 J/cmÂ² @Temperature 23.0 Â°C	45.2 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	11.0 J/cmÂ² @Temperature 23.0 Â°C	52.3 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cmÂ² @Temperature -30.0 Â°C	4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA
	1.00 J/cmÂ² @Temperature -30.0 Â°C	4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eA
	1.80 J/cmÂ² @Temperature 23.0 Â°C	8.57 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA
	2.80 J/cmÂ² @Temperature 23.0 Â°C	13.3 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eA
Impact	1024	1024	Puncture maximum force (N); ISO 6603-2
	835 @Temperature -30.0 Â°C	835 @Temperature -22.0 Â°F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	10.0 J	7.38 ft-lb	ISO 6603-2
	15.0 J	11.1 ft-lb	Conditioned; ISO 6603-2
	7.00 J @Temperature -30.0 Â°C	5.16 ft-lb @Temperature -22.0 Â°F	ISO 6603-2
	7.00 J @Temperature -30.0 Â°C	5.16 ft-lb @Temperature -22.0 Â°F	Conditioned; ISO 6603-2
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 Âµm/m-Â°C	11.1 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	100 Âµm/m-Â°C	55.6 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			ISO 75-1/-2

Thermal Properties	Metric	English	Comments
(66 psi)	210 Â°C	410 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	90.0 Â°C	194 Â°F	ISO 75-1/-2
Vicat Softening Point	200 Â°C	392 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	IEC 60695-11-10
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	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
	4.2 @Frequency 100 Hz	4.2 @Frequency 100 Hz	IEC 60250
	4.6 @Frequency 1.00e+6 Hz	4.6 @Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	13 @Frequency 100 Hz	13 @Frequency 100 Hz	Conditioned; IEC 60250
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243-1
	40.0 kV/mm	1020 kV/in	Conditioned; IEC 60243-1
Dissipation Factor	0.0090 @Frequency 100 Hz	0.0090 @Frequency 100 Hz	IEC 60250
	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250
	0.090	0.090	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	0.175 @Frequency 100 Hz	0.175 @Frequency 100 Hz	Conditioned; IEC 60250
Comparative Tracking Index	575 V	575 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	High impact or high impact modified	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6/66-I, MR, 14-090, GF30	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China