

Lanxess Durethan® BKV 140 00000 Copolyamide, 40% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

CoPA, injection molding grade, 40% glass fibers, elastomer-modified, electroplateable, higher notched impact strength and also higher energy absorption under biaxial impact load than BKV 40, even in the dry state

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-140-00000-Copolyamide-40-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Water Absorption	6.0 %	6.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.6 %	1.6 %	23 ^o 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
Melt Flow	7 g/10 min @Load 5.00 kg, Temperature 260 ^o C	7 g/10 min @Load 11.0 lb, Temperature 500 ^o F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	Conditioned; ISO 527-1/-2
	180 MPa	26100 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	6.0 %	6.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	6.70 GPa	972 ksi	Conditioned; ISO 527-1/-2
	11.5 GPa	1670 ksi	ISO 527-1/-2
Charpy Impact Unnotched	9.50 J/cm ² @Temperature -30.0 ^o C	45.2 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eU
	9.50 J/cm ² @Temperature -30.0 ^o C	45.2 ft-lb/in ² @Temperature -22.0 ^o F	Conditioned; ISO 179/1eU
	10.0 J/cm ² @Temperature 23.0 ^o C	47.6 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	11.0 J/cm ² @Temperature 23.0 °C	52.3 ft-lb/in ² @Temperature 73.4 °F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eA
	2.50 J/cm ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	Conditioned; ISO 179/1eA
Impact	1072	1072	Puncture maximum force (N); ISO 6603-2
	858 @Temperature -30.0 °C	858 @Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	11.0 J	8.11 ft-lb	ISO 6603-2
	8.00 J @Temperature -30.0 °C	5.90 ft-lb @Temperature -22.0 °F	ISO 6603-2
	8.00 J @Temperature -30.0 °C	5.90 ft-lb @Temperature -22.0 °F	Conditioned; ISO 6603-2
Tensile Creep Modulus, 1 hour	6100 MPa	885000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	4900 MPa	711000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C	11.1 Åµin/in-Å°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	213 Å°C	415 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	210 Å°C	410 Å°F	ISO 75-1/-2

Thermal Properties <small>(Deflection Temperature at 1.8 MPa 1.84 psi)</small>	200 Â°C Metric	392 Â°F English	ISO 75-1/-2 Comments
Vicat Softening Point	200 Â°C	392 Â°F	50Â°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	
Oxygen Index	22 %	22 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	Conditioned; IEC 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 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	
Dielectric Strength	35.0 kV/mm	889 kV/in	Conditioned; IEC 60243-1
	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.0070	0.0070	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	575 V	575 V	IEC 60112

Descriptive Properties	Value	Comments
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Additives Descriptive Properties	Release agent Value	Comments
Features	High impact or high impact modified	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6/66-I, MR, 14-110, GF40	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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