

## Lanxess Durethan® BKV 130 GIT 900116 Copolyamide, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

CoPA, injection molding grade, 30% glass fibers, elastomer-modified, suitable for GIT (gas assisted technology), good surface finish  
Application Examples: Chain-saw handles, office chair armrests, office chair back rests

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-130-GIT-900116-Copolyamide-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-130-GIT-900116-Copolyamide-30-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Water Absorption	6.5 %	6.5 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.9 %	1.9 %	23°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	134 cm <sup>3</sup> /g	134 cm <sup>3</sup> /g	Viscosity number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	Conditioned; ISO 527-1/-2
	160 MPa	23200 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
	6.0 %	6.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	5.30 GPa	769 ksi	Conditioned; ISO 527-1/-2
	9.40 GPa	1360 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties Charpy Impact, Notched	Metric 1.00 J/cm <sup>2</sup>	English 4.76 ft-lb/in <sup>2</sup>	Comments ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.60 J/cm <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	919	919	Puncture maximum force (N); ISO 6603-2
	772	772	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
	13.0 J	9.59 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	

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)	190 °C	374 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	80.0 °C	176 °F	ISO 75-1/-2
Vicat Softening Point	200 °C	392 °F	50°C/h 50N; ISO 306

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	IEC 60695-11-10
	HB	HB	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	24 %	24 %	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+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.5	4.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.5	4.5	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	12	12	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	32.0 kV/mm	813 kV/in	IEC 60243-1
	32.0 kV/mm	813 kV/in	Conditioned; 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	
	0.090	0.090	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.16	0.16	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 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	

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