

## Lanxess Durethan® BKV 15 000000 Copolyamide, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

CoPA, injection molding grade, 15% glass fibers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-15-000000-Copolyamide-15-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-15-000000-Copolyamide-15-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ISO 1183
Water Absorption	8.5 %	8.5 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.6 %	2.6 %	23 <sup>o</sup> C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	138 cm <sup>3</sup> /g	138 cm <sup>3</sup> /g	Viscosity number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	Conditioned; ISO 527-1/-2
	125 MPa	18100 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	12 %	12 %	Conditioned; ISO 527-1/-2
Tensile Modulus	3.60 GPa	522 ksi	Conditioned; ISO 527-1/-2
	6.30 GPa	914 ksi	ISO 527-1/-2
Charpy Impact Unnotched	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -30.0 <sup>o</sup> C	@Temperature -22.0 <sup>o</sup> F	
	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU
	@Temperature -30.0 <sup>o</sup> C	@Temperature -22.0 <sup>o</sup> F	
	4.50 J/cm <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 <sup>o</sup> C	@Temperature 73.4 <sup>o</sup> F	
	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU
	@Temperature 23.0 <sup>o</sup> C	@Temperature 73.4 <sup>o</sup> F	
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	

Charpy Impact, Notched Mechanical Properties	@Temperature -30.0 Metric °C	@Temperature -22.0 English °F	ISO 179/1eA Comments
	<= 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	
	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	6444	6444	Puncture maximum force (N); ISO 6603-2
	585	585	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	4.00 J	2.95 ft-lb	ISO 6603-2
	3.00 J	2.21 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.00 J	2.21 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 μm/m-°C	16.7 μin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 μm/m-°C	44.4 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	60.0 °C	140 °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	

Thermal Properties	HB Metric	HB English	Comments 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	IEC 60093
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	IEC 60243-1
Dissipation Factor	0.0050	0.0050	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.12	0.12	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.20	0.20	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
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<b>Additives</b> Descriptive Properties	<b>Release agent</b> Value	Comments
Form	Pellets	
ISO Shortname	ISO 1874-PA 6/66, MR, 14-060, GF15	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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