

## Lanxess Durethan® BKV 115 00000 Copolyamide, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

CoPA, injection molding grade, 15% glass fibers, elastomer-modified, electroplateable, higher notched impact strength and also higher energy absorption under biaxial impact load than BKV 15, even in the dry state, conditioning may be unnecessary in single cases

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-115-00000-Copolyamide-15-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-115-00000-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	2.5 %	2.5 %	23 <sup>o</sup> 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
Linear Mold Shrinkage, Flow	0.0038 cm/cm	0.0038 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0051 cm/cm	0.0051 in/in	ISO 294-4, 2577
Melt Flow	29 g/10 min @Load 5.00 kg, Temperature 260 <sup>o</sup> C	29 g/10 min @Load 11.0 lb, Temperature 500 <sup>o</sup> F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	Conditioned; ISO 527-1/-2
	120 MPa	17400 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
	12 %	12 %	Conditioned; ISO 527-1/-2
Tensile Modulus	2.80 GPa	406 ksi	Conditioned; ISO 527-1/-2
	5.70 GPa	827 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	19.0 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	Conditioned; ISO 179/1eU
	4.50 J/cm <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	21.4 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	ISO 179/1eU
	6.50 J/cm <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eU
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	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	
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	737	737	Puncture maximum force (N); ISO 6603-2
	636	636	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	2.90 J	2.14 ft-lb	ISO 6603-2
	2.20 J	1.62 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.20 J	1.62 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	2600 MPa	377000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	2000 MPa	290000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Åµm/m-Å°C	16.7 Åµin/in-Å°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	213 Å°C	415 Å°F	10Å°C/min; ISO 11357-1/-3

Thermal Properties	Metric	English	Comments
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	
	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	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.1	4.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.8	4.8	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	8.0	8.0	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
	35.0 kV/mm	889 kV/in	Conditioned; IEC 60243-1
Dissipation Factor	0.0080	0.0080	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	0.13 Metric	0.13 English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	0.215	0.215	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,14-060,GF15	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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