

Lanxess Durethan® BKV 215 901510 Copolyamide, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

CoPA, injection molding grade, 15% glass fibers, elastomer-modified, higher impact and notched impact strength and also higher energy absorption under biaxial impact load than BKV 115, conditioning may be unnecessary in single cases

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-215-901510-Copolyamide-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	23°C/50% R.H.; Test Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527-1/-2
Elongation at Break	4.5 %	4.5 %	ISO 527-1/-2
Tensile Modulus	4.50 GPa	653 ksi	ISO 527-1/-2
Impact	1003	1003	Puncture maximum force (N); ISO 6603-2
	650 @Temperature -30.0 °C	650 @Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	13.0 J	9.59 ft-lb	ISO 6603-2
	32.0 J	23.6 ft-lb	Conditioned; ISO 6603-2
	4.80 J @Temperature -30.0 °C	3.54 ft-lb @Temperature -22.0 °F	ISO 6603-2
	4.80 J @Temperature -30.0 °C	3.54 ft-lb @Temperature -22.0 °F	Conditioned; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	150 µm/m-°C	83.3 µin/in-°F	ISO 11359-1/-2

Melting Point Thermal Properties	213 Å°C Metric	415 Å°F English	10Å°C/min: ISO 11357-1/-3 Comments
Deflection Temperature at 0.46 MPa (66 psi)	205 Å°C	401 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	175 Å°C	347 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	60.0 Å°C	140 Å°F	ISO 75-1/-2
Vicat Softening Point	200 Å°C	392 Å°F	50Å°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+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.5	3.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.7	3.7	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	10	10	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	43.0 kV/mm	1090 kV/in	IEC 60243-1
	43.0 kV/mm	1090 kV/in	Conditioned; IEC 60243-1
Dissipation Factor	0.0060	0.0060	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
	0.080	0.080	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.15	0.15	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Features	High impact or high impact modified	
ISO Shortname	ISO 1874-PA 6/66-HI,MR,-050,GF15	
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