Lanxess DurethanÂ® BKV 15 G H2.0 900051 Copolyamide, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

CoPA, injection molding grade, 15% glass fibers, better surface resistance to alcoholic calcium chloride-solution than BKV 15 H2.0, good heat-ageing resistance

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-15-G-H20-900051-Copolyamide-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/inÂ³	ISO 1183
Water Absorption	7.8 %	7.8 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.6 %	2.6 %	23Â°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	138 cmÂ³/g	138 cmÂ³/g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	52 g/10 min @Load 5.00 kg, Temperature 260 Â°C	52 g/10 min @Load 11.0 lb, Temperature 500 Â°F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	Conditioned; ISO 527-1/-2
	120 MPa	17400 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	11 %	11 %	Conditioned; ISO 527-1/-2
Tensile Modulus	4.00 GPa	580 ksi	Conditioned; ISO 527-1/-2
	6.50 GPa	943 ksi	ISO 527-1/-2
Charpy Impact Unnotched	3.50 J/cmÂ² @Temperature -30.0 Â°C	16.7 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eU
	3.50 J/cmÂ² @Temperature -30.0 Â°C	16.7 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eU
	4.00 J/cmÂ² @Temperature 23.0 Â°C	19.0 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	4.00 J/cmÂ² @Temperature 23.0 Â°C	19.0 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA
	<= 1.00 J/cmÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eA
	<= 1.00 J/cmÂ² @Temperature 23.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA
	<= 1.00 J/cmÂ² @Temperature 23.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eA
Impact	559	559	Puncture maximum force (N); ISO 6603-2
	505 @Temperature -30.0 Â°C	505 @Temperature -22.0 Â°F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	2.00 J	1.48 ft-lb	ISO 6603-2
	1.50 J @Temperature -30.0 Â°C	1.11 ft-lb @Temperature -22.0 Â°F	ISO 6603-2
	1.50 J @Temperature -30.0 Â°C	1.11 ft-lb @Temperature -22.0 Â°F	Conditioned; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	218 Â°C	424 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C	410 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	180 Â°C	356 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	55.0 Â°C	131 Â°F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Vicat Softening Point	200 °C	392 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	IEC 60695-11-10
Oxygen Index	23 %	23 %	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+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.7 @Frequency 1.00e+6 Hz	3.7 @Frequency 1.00e+6 Hz	IEC 60250
	4.1 @Frequency 100 Hz	4.1 @Frequency 100 Hz	IEC 60250
	4.3 @Frequency 1.00e+6 Hz	4.3 @Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	10 @Frequency 100 Hz	10 @Frequency 100 Hz	Conditioned; IEC 60250
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
	30.0 kV/mm	762 kV/in	Conditioned; IEC 60243-1
Dissipation Factor	0.0080 @Frequency 100 Hz	0.0080 @Frequency 100 Hz	IEC 60250
	0.018 @Frequency 1.00e+6 Hz	0.018 @Frequency 1.00e+6 Hz	IEC 60250
	0.070 @Frequency 1.00e+6 Hz	0.070 @Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	0.22 @Frequency 100 Hz	0.22 @Frequency 100 Hz	Conditioned; IEC 60250

Electrical Properties	Metric	English	Comments

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6/66, MHR, 14-060, GF15	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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