

Lanxess Durethan® DP BKV 60 H2.0 EF 900116 Nylon 6, 60% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 60% Glass Fiber Filled

Material Notes:

PA 6, injection molding grade, 60% glass fibers, low viscosity, good flowability (Easy Flow), good heat-resistance
Application Examples:
gearbox housings, spring holders, automotive door handles

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-BKV-60-H20-EF-900116-Nylon-6-60-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ISO 1183
Water Absorption	3.6 %	3.6 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.1 %	1.1 %	23°C/50% R.H.; Test Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0019 cm/cm	0.0019 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0047 cm/cm	0.0047 in/in	ISO 294-4, 2577
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 270 °C	15 g/10 min @Load 11.0 lb, Temperature 518 °F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	Conditioned; ISO 527-1/-2
	227 MPa	32900 psi	ISO 527-1/-2
Elongation at Break	2.4 %	2.4 %	ISO 527-1/-2
	3.1 %	3.1 %	Conditioned; ISO 527-1/-2
Tensile Modulus	13.1 GPa	1900 ksi	Conditioned; ISO 527-1/-2
	20.4 GPa	2960 ksi	ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	9.00 J/cm ² @Temperature 23.0 °C	42.8 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
	9.00 J/cm ² @Temperature 23.0 °C	42.8 ft-lb/in ² @Temperature 73.4 °F	Conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179/1eU
Charpy Impact, Notched	1.70 J/cmÂ² @Temperature 23.0 Â°C	8.09 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA
	1.80 J/cmÂ² @Temperature -30.0 Â°C	8.57 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 Âµm/m-Â°C	5.56 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	222 Â°C	432 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	212 Â°C	414 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	190 Â°C	374 Â°F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+11 ohm-cm	8.00e+11 ohm-cm	Conditioned; IEC 60093
	5.80e+14 ohm-cm	5.80e+14 ohm-cm	IEC 60093
Dielectric Constant	4.7 @Frequency 1.00e+6 Hz	4.7 @Frequency 1.00e+6 Hz	IEC 60250
	5.1 @Frequency 1.00e+6 Hz	5.1 @Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	5.3 @Frequency 100 Hz	5.3 @Frequency 100 Hz	IEC 60250
	11.2 @Frequency 100 Hz	11.2 @Frequency 100 Hz	Conditioned; IEC 60250
Dielectric Strength	33.0 kV/mm	838 kV/in	IEC 60243-1
	33.0 kV/mm	838 kV/in	Conditioned; IEC 60243-1

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
	0.0177	0.0177	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	0.0651	0.0651	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	0.2149	0.2149	
	@Frequency 100 Hz	@Frequency 100 Hz	Conditioned; IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Form	Pellets	
ISO Shortname	ISO1874-PA6, MHR, 10-190, GF60	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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