

Lanxess Durethan® DP 2131/20 W1 901317 Nylon 6, 20% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

PA 6, injection molding grade, 20% glass fibers, better surface finish and resistance to alcoholic calcium chloride-solution than BKV 20 H2.0, weather resistance, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-213120-W1-901317-Nylon-6-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Viscosity Test	140 cm ³ /g	140 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	28 g/10 min @Load 5.00 kg, Temperature 270 °C	28 g/10 min @Load 11.0 lb, Temperature 518 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	Conditioned; ISO 527-1/-2
	150 MPa	21800 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	7.0 %	7.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	4.70 GPa	682 ksi	Conditioned; ISO 527-1/-2
	7.60 GPa	1100 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	4.50 J/cm ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
	6.00 J/cm ² @Temperature 23.0 °C	28.6 ft-lb/in ² @Temperature 73.4 °F	Conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.600 J/cm ^Å ²	2.86 ft-lb/in ^Å ²	ISO 179/1eA
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	0.700 J/cm ^Å ²	3.33 ft-lb/in ^Å ²	ISO 179/1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Puncture Energy	5.00 J	3.69 ft-lb	ISO 6603-2
	10.0 J	7.38 ft-lb	Conditioned; ISO 6603-2
	4.00 J	2.95 ft-lb	ISO 6603-2
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	4.00 J	2.95 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.0 Åµm/m-Å°C	12.8 Åµin/in-Å°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	89.0 Åµm/m-Å°C	49.4 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	222 Å°C	432 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	213 Å°C	415 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	215 Å°C	419 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	73.0 Å°C	163 Å°F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Conditioned; IEC 60093
	3.00e+15 ohm-cm	3.00e+15 ohm-cm	IEC 60093
Surface Resistance	2.00e+13 ohm	2.00e+13 ohm	IEC 60093
	3.74	3.74	

Dielectric Constant Electrical Properties	@Frequency 1.00e+6 Metric Hz	@Frequency 1.00e+6 English Hz	IEC 60250 Comments
	4.1	4.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.27	4.27	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	9.34	9.34	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0087	0.0087	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0185	0.0185	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.0677	0.0677	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.2203	0.2203	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
	U.V. stabilized or stable to weather	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MHLR,14-070,GF20	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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