

Lanxess Durethan® DP 1801/30 H3.0 000000 Nylon 6, 30% Milled Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

PA 6, injection molding grade, 30% milled fibers, UL 94V-2 at 0.8 mm, max. temperature in glow wire test: 960 °C at 0,75 mm, "halogen-free", good heat-ageing resistance

Application Examples: Medical Appliance Housings

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-180130-H30-000000-Nylon-6-30-Milled-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Water Absorption	5.9 %	5.9 %	Test Sim. to ISO 62
Viscosity Test	104 cm ³ /g	104 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.0055 cm/cm	0.0055 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0063 cm/cm	0.0063 in/in	ISO 294-4, 2577
Melt Flow	38 g/10 min @Load 5.00 kg, Temperature 260 °C	38 g/10 min @Load 11.0 lb, Temperature 500 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	Conditioned; ISO 527-1/-2
	93.0 MPa	13500 psi	ISO 527-1/-2
Tensile Strength, Yield	50.0 MPa	7250 psi	Conditioned; ISO 527-1/-2
	96.0 MPa	13900 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
	28 %	28 %	Conditioned; ISO 527-1/-2
Elongation at Yield	2.4 %	2.4 %	ISO 527-1/-2
	9.7 %	9.7 %	Conditioned; ISO 527-1/-2
Tensile Modulus	3.40 GPa	493 ksi	Conditioned; ISO 527-1/-2
	7.60 GPa	1100 ksi	ISO 527-1/-2
Charpy Impact Unnotched	5.00 J/cm ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.0 Âµm/m-Â°C	45.6 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	35.0 Âµm/m-Â°C	19.4 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)	210 Â°C	410 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	175 Â°C	347 Â°F	ISO 75-1/-2
Flammability, UL94	V-2	V-2	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-2	V-2	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	30 %	30 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Dielectric Strength	38.0 kV/mm	965 kV/in	IEC 60243-1
Comparative Tracking Index	550 V	550 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Flame retarding agent	
	Lubricants	
Features	Flame retardant	
	Heat stabilized or stable to heat	

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6,MFH,14-080,GF30; ISO 1043-PA GF FR(30)	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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