

Lanxess Durethan® DP 1852/30 000000 Nylon 6, 30% 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, 30% glassfibers, UL V-0 at 0.75 mm (listed),GWIT:775°C at 0,75 mm, GWFI:960°C at 0.75 mm, CTI/A:400, good

flowabilityApplication Examples: Hand-held barrel pump housings

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-185230-000000-Nylon-6-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.669 g/cc	0.06030 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.3 %	1.3 %	23°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	134 cm ³ /g	134 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.0023 cm/cm	0.0023 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0055 cm/cm	0.0055 in/in	ISO 294-4, 2577
Melt Flow	55 g/10 min @Load 5.00 kg, Temperature 260 °C	55 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	80.0 MPa	11600 psi	Conditioned; ISO 527-1/-2
	140 MPa	20300 psi	ISO 527-1/-2
Tensile Strength, Yield	85.0 MPa	12300 psi	Conditioned; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
	3.4 %	3.4 %	Conditioned; ISO 527-1/-2
Elongation at Yield	3.0 %	3.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	7.00 GPa	1020 ksi	Conditioned; ISO 527-1/-2
	11.0 GPa	1600 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm ² @Temperature -30.0 °C	21.4 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	3.50 J/cm ²	26.2 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 Åµm/m-Å°C	41.7 Åµin/in-Å°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	23.0 Åµm/m-Å°C	12.8 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)	218 Å°C	424 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	203 Å°C	397 Å°F	ISO 75-1/-2
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Dielectric Strength	34.5 kV/mm	876 kV/in	IEC 60243-1
Comparative Tracking Index	400 V	400 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Flame retarding agent	
	Lubricants	
	Release agent	
Features	Flame retardant	
	U.V. stabilized or stable to weather	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MF,14,-110, GF30; ISO 1043-PA GF FR(17+72)	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	

Descriptive Properties	Value South and Central America	Comments
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