

Lanxess Durethan® DP 1802 H3.0 000000 Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Extruded , Nylon 6, Unreinforced

Material Notes:

PA 6 injection and extrusion molding grade, non-reinforced, impact-modified, UL 94V-2 off 0,75 mm, GWIT: 775Å°C off 0,75 mm, halogen-free

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-1802-H30-000000-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Water Absorption	8.0 %	8.0 %	Test Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0013 cm/cm	0.0013 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0014 cm/cm	0.0014 in/in	ISO 294-4, 2577
Melt Flow	9 g/10 min @Load 5.00 kg, Temperature 260 Å°C	9 g/10 min @Load 11.0 lb, Temperature 500 Å°F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	Conditioned; ISO 527-1/-2
	65.0 MPa	9430 psi	ISO 527-1/-2
Elongation at Yield	3.9 %	3.9 %	ISO 527-1/-2
	25 %	25 %	Conditioned; ISO 527-1/-2
Tensile Modulus	0.750 GPa	109 ksi	Conditioned; ISO 527-1/-2
	2.50 GPa	363 ksi	ISO 527-1/-2
Charpy Impact Unnotched	12.5 J/cm ² @Temperature 23.0 Å°C	59.5 ft-lb/in ² @Temperature 73.4 Å°F	ISO 179/1eU
	NB @Temperature 23.0 Å°C	NB @Temperature 73.4 Å°F	Conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
Melting Point	220 Å°C	420 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	156 Å°C	313 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	58.0 Å°C	136 Å°F	ISO 75-1/-2
Flammability, UL94	V-2 @Thickness 0.750 mm	V-2 @Thickness 0.0295 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 60243-1
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Flame retarding agent	
	Lubricants	
Features	Flame retardant	
	High impact or high impact modified	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,GF,18-030; ISO1043-PA FR(30)	
Processing	Injection molding	
	Other extrusion	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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