

Lanxess Durethan® B 30 S FN40 000000 Nylon 6

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

Material Notes:

PA 6, injection molding grade, non- reinforced, good flowability, easy-release, fast cycling, UL 94V-2 off 0,75 mm, GWIT 775Â°C bei 0,75/1,5mm

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-B-30-S-FN40-000000-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/inÂ³	ISO 1183
Water Absorption	10 %	10 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	3.0 %	3.0 %	23Â°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	138 cmÂ³/g	138 cmÂ³/g	Viscosity number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577
Melt Flow	32 g/10 min @Load 5.00 kg, Temperature 260 Â°C	32 g/10 min @Load 11.0 lb, Temperature 500 Â°F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527-1/-2
	65.0 MPa	9430 psi	Conditioned; ISO 527-1/-2
Tensile Strength, Yield	45.0 MPa	6530 psi	Conditioned; ISO 527-1/-2
	90.0 MPa	13100 psi	ISO 527-1/-2
Elongation at Break	9.6 %	9.6 %	Nominal; ISO 527-1/-2
	15.5 %	15.5 %	ISO 527-1/-2
	265 %	265 %	Nominal, Conditioned; ISO 527-1/-2
	293 %	293 %	Conditioned; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
	22.5 %	22.5 %	Conditioned; ISO 527-1/-2
Tensile Modulus	1.10 GPa	160 ksi	Conditioned; ISO 527-1/-2

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	NB	NB	Conditioned; ISO 179/1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Âµm/m-Â°C	50.0 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)	166 Â°C	331 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	66.0 Â°C	151 Â°F	ISO 75-1/-2
Flammability, UL94	V-2	V-2	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	28 %	28 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Flame retarding agent	
Features	Flame retardant	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MFR,14-030N; ISO 1043-PA FR(30)	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	

Descriptive Properties	Value	South and Central America	Comments
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