

Lanxess Durethan® B 30 S FN30 000000 Nylon 6, Flame Retardant

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

Material Notes:

PA 6, non-reinforced, injection molding, halogen free flame retardant, heat-aging resistance Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-B-30-S-FN30-000000-Nylon-6-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0090 cm/cm	0.0090 in/in	60x60x2; 260Å°C / MT 80Å°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0090 cm/cm	0.0090 in/in	60x60x2; 260Å°C / MT 80Å°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	d.a.m.; ISO 527-1, -2; 50 mm/min
Elongation at Break	9.0 %	9.0 %	d.a.m.; ISO 527-1, -2; 50 mm/min
Elongation at Yield	3.8 %	3.8 %	d.a.m.; ISO 527-1, -2; 50 mm/min
Tensile Modulus	3.50 GPa	508 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	120 MPa	17400 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 5.50 %	@Strain 5.50 %	
Flexural Yield Strength	105 MPa	15200 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	3.30 GPa	479 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Unnotched (ISO)	100 kJ/mÅ²	47.6 ft-lb/inÅ²	d.a.m.; ISO 180-1U

Thermal Properties	Metric	English	Comments
Melting Point	222 Å°C	432 Å°F	10Å°C/min; ISO 11357-1, -3
Deflection Temperature at 1.8 MPa (264 psi)	65.0 Å°C	149 Å°F	ISO 75-1, -2
	V-0	V-0	

Flammability UL 94			
Thermal Properties	Metric	English	Comments
	@Thickness 0.380 mm	@Thickness 0.0150 in	
	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	40 %	40 %	Method A; ISO 4589-2
Glow Wire Test	775 Å°C	1430 Å°F	GWIT; IEC 60695-2-13
	@Diameter 0.400 mm	@Diameter 0.0157 in	
	775 Å°C	1430 Å°F	GWIT; IEC 60695-2-13
	@Diameter 0.800 mm	@Diameter 0.0315 in	
	775 Å°C	1430 Å°F	GWIT; IEC 60695-2-13
	@Diameter 1.50 mm	@Diameter 0.0591 in	
	960 Å°C	1760 Å°F	GWFI; IEC 60695-2-12
	@Diameter 0.400 mm	@Diameter 0.0157 in	
	960 Å°C	1760 Å°F	GWFI; IEC 60695-2-12
	@Diameter 0.800 mm	@Diameter 0.0315 in	
	960 Å°C	1760 Å°F	GWFI; IEC 60695-2-12
	@Diameter 1.50 mm	@Diameter 0.0591 in	
	960 Å°C	1760 Å°F	GWFI; IEC 60695-2-12
	@Diameter 3.00 mm	@Diameter 0.118 in	
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	d.a.m.; IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	d.a.m.; IEC 60167
Dielectric Strength	31.0 kV/mm	787 kV/in	d.a.m.; IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 Å°C	482 - 518 Å°F	

Processing Properties	260 Â°C Metric	500 Â°F English	for test specimens; ISO 294 Comments
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.030 - 0.070 %	0.030 - 0.070 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6, GFHR, 12-030; ISO 1043-PA FR (30)	

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