

Lanxess Durethan® B 30 S F30 000000 Nylon 6, Flame Retardant

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

Material Notes:

PA 6, non-reinforced, injection molding, flame retardant Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-B-30-S-F30-000000-Nylon-6-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.00040 cm/cm	0.00040 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.011 cm/cm	0.011 in/in	60x60x2; 260Å°C / MT 80Å°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.00040 cm/cm	0.00040 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.011 cm/cm	0.011 in/in	60x60x2; 260Å°C / MT 80Å°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 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	3.7 %	3.7 %	d.a.m.; ISO 527-1, -2; 50 mm/min
Tensile Modulus	3.60 GPa	522 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	110 MPa @Strain 5.50 %	16000 psi @Strain 5.50 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Yield Strength	100 MPa @Strain 3.50 %	14500 psi @Strain 3.50 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Modulus	3.20 GPa	464 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/mÅ² @Temperature 23.0 Å°C	<= 4.76 ft-lb/inÅ² @Temperature 73.4 Å°F	d.a.m.; ISO 180-1A
	<= 10.0 kJ/mÅ² @Temperature -30.0 Å°C	<= 4.76 ft-lb/inÅ² @Temperature -22.0 Å°F	d.a.m.; ISO 180-1A
Izod Impact, Unnotched (ISO)	100 kJ/mÅ²	47.6 ft-lb/inÅ²	d.a.m.; ISO 180-1U

Mechanical Properties	@Temperature -30.0 Metric °C	@Temperature -22.0 English °F	Comments
	120 kJ/m ²	57.1 ft-lb/in ²	d.a.m.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	13.0 J/cm ²	61.9 ft-lb/in ²	d.a.m.; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	15.0 J/cm ²	71.4 ft-lb/in ²	d.a.m.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	d.a.m.; ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	d.a.m.; ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	10 °C/min; ISO 11357-1, -3
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75-1, -2
Flammability, UL94	V-0	V-0	
	@Thickness 0.400 mm	@Thickness 0.0157 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	
	5VA	5VA	
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	5VA	5VA	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	800 °C	1470 °F	GWIT; IEC 60695-2-13
	@Diameter 3.00 mm	@Diameter 0.118 in	
	825 °C	1520 °F	GWIT; IEC 60695-2-13

Thermal Properties	@Diameter 0.750 mm Metric	@Diameter 0.0295 in English	Comments
	825 Â°C	1520 Â°F	GWIT; IEC 60695-2-13
	@Diameter 1.50 mm	@Diameter 0.0591 in	
	960 Â°C	1760 Â°F	GWFI; IEC 60695-2-12
	@Diameter 0.800 mm	@Diameter 0.0315 in	
	960 Â°C	1760 Â°F	GWFI; IEC 60695-2-12
	@Diameter 1.50 mm	@Diameter 0.0591 in	
	960 Â°C	1760 Â°F	GWFI; IEC 60695-2-12
	@Diameter 3.00 mm	@Diameter 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	300 V	300 V	d.a.m.; Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 Â°C	482 - 518 Â°F	for test specimens; ISO 294
	260 Â°C	500 Â°F	admissible residence time at Tmax >= 10 min
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 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6, GFHR, 14-040; ISO 1043-PA GF FR (17)	

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