

Lanxess Durethan® DP A 30 S FN30 DUS025 000000 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

PA 66, non-reinforced, injection molding, halogen free flame retardant improved flowability Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-A-30-S-FN30-DUS025-000000-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.169 g/cc	1.169 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.011 cm/cm	0.011 in/in	60x60x2; 270°C / WZ 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.011 cm/cm	0.011 in/in	60x60x2; 270°C / WZ 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	cond.; ISO 527-1, -2; 50 mm/min
	85.0 MPa	12300 psi	d.a.m.; ISO 527-1, -2; 50 mm/min
Elongation at Yield	4.1 %	4.1 %	d.a.m.; ISO 527-1, -2; 50 mm/min
	>= 20 %	>= 20 %	cond.; ISO 527-1, -2; 50 mm/min
Tensile Modulus	1.50 GPa	218 ksi	cond.; ISO 527-1, -2; 1 mm/min
	3.80 GPa	551 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	55.0 MPa	7980 psi	cond., 2 mm/min; ISO 178-A
	@Strain 8.00 %	@Strain 8.00 %	
Flexural Yield Strength	135 MPa	19600 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 5.80 %	@Strain 5.80 %	
Flexural Modulus	40.0 MPa	5800 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	115 MPa	16700 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	1.60 GPa	232 ksi	cond., 2 mm/min; ISO 178-A

Mechanical Properties	Metric ^{1)a}	English	Comments ^{in/min; ISO 178-A}
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	d.a.m.; ISO 180-1A
	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	cond.; ISO 180-1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ² @Temperature 23.0 Â°C	21.4 ft-lb/in ² @Temperature 73.4 Â°F	d.a.m.; ISO 180-1U
	45.0 kJ/m ² @Temperature -30.0 Â°C	21.4 ft-lb/in ² @Temperature -22.0 Â°F	d.a.m.; ISO 180-1U
	55.0 kJ/m ² @Temperature -30.0 Â°C	26.2 ft-lb/in ² @Temperature -22.0 Â°F	cond.; ISO 180-1U
	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	cond.; ISO 180-1U
Charpy Impact Unnotched	5.00 J/cm ² @Temperature -30.0 Â°C	23.8 ft-lb/in ² @Temperature -22.0 Â°F	d.a.m.; ISO 179-1eU
	6.00 J/cm ² @Temperature 23.0 Â°C	28.6 ft-lb/in ² @Temperature 73.4 Â°F	d.a.m.; ISO 179-1eU
	8.00 J/cm ² @Temperature -30.0 Â°C	38.1 ft-lb/in ² @Temperature -22.0 Â°F	cond.; ISO 179-1eU
	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	cond.; ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	d.a.m.; ISO 179-1eA
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	cond.; ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	44.4 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1, -2
CTE, linear, Transverse to Flow	70.0 Âµm/m-Â°C @Temperature 23.0 -	38.9 Âµin/in-Â°F @Temperature 73.4 -	ISO 11359-1, -2

Thermal Properties	55.0 Å°C Metric	131 Å°F English	Comments
Melting Point	265 Å°C	509 Å°F	10Å°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	212 Å°C	414 Å°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	80.0 Å°C	176 Å°F	ISO 75-1, -2
Vicat Softening Point	230 Å°C @Load 5.10 kg	446 Å°F @Load 11.2 lb	120Å°C/hour; ISO 306
Flammability, UL94	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	
Oxygen Index	35 %	35 %	Method A; ISO 4589-2
Glow Wire Test	775 Å°C @Diameter 0.400 mm	1430 Å°F @Diameter 0.0157 in	GWIT; IEC 60695-2-13
	960 Å°C @Diameter 0.400 mm	1760 Å°F @Diameter 0.0157 in	GWFI; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	d.a.m.; Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 Å°C	500 Å°F	for test specimens; ISO 294
	260 - 270 Å°C	500 - 518 Å°F	
Mold Temperature	80.0 Å°C	176 Å°F	for test specimens; ISO 294
	80.0 - 100 Å°C	176 - 212 Å°F	
Drying Temperature	80.0 Å°C	176 Å°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 66, GF, 14-040; ISO 1043 PA FR(30)	

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