

Lanxess Durethan® DP 2801 000000 Nylon 66

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

Material Notes:

PA 66 injection molding grade, non-reinforced, UL 94V-2 off 0,75 mm (listed), GWFI: 960°C off 0.75 mm, GWIT: 775°C off 0,75 mm, halogen-free

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-2801-000000-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.143 g/cc	0.04129 lb/in ³	ISO 1183
Viscosity Test	133 cm ³ /g	133 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.00114 cm/cm	0.00114 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.00122 cm/cm	0.00122 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Conditioned; ISO 527-1/-2
	80.0 MPa	11600 psi	ISO 527-1/-2
Tensile Strength, Yield	55.0 MPa	7980 psi	Conditioned; ISO 527-1/-2
	94.0 MPa	13600 psi	ISO 527-1/-2
Elongation at Break	10 %	10 %	Nominal; ISO 527-1/-2
	11 %	11 %	ISO 527-1/-2
	155 %	155 %	Nominal, Conditioned; ISO 527-1/-2
	230 %	230 %	Conditioned; ISO 527-1/-2
Elongation at Yield	4.2 %	4.2 %	ISO 527-1/-2
	20 %	20 %	Conditioned; ISO 527-1/-2
Tensile Modulus	1.40 GPa	203 ksi	Conditioned; ISO 527-1/-2
	3.50 GPa	508 ksi	ISO 527-1/-2
Charpy Impact Unnotched	11.0 J/cm ²	52.3 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	12.0 J/cm ²	57.1 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
	18.3 J/cm ²	58.3 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	Conditioned; 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	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	3730	3730	Puncture maximum force (N); ISO 6603-2
	4630	4630	Puncture maximum force, Conditioned (N); ISO 6603-2
	2396	2396	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	13.1 J	9.66 ft-lb	ISO 6603-2
	27.2 J	20.1 ft-lb	Conditioned; ISO 6603-2
	5.10 J	3.76 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.10 J	3.76 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
Melting Point	265 °C	509 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Definition: Temperature at 8.0 MPa	Metric	English	ISO 18-1/-2
Flammability, UL94	V-2 @Thickness 0.750 mm	V-2 @Thickness 0.0295 in	IEC 60695-11-10
Oxygen Index	30 %	30 %	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 66,MF,14-030; ISO 1043-PA FR(30)	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China