

Lanxess Durethan® A 30 000000 Nylon 66

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

Material Notes:

PA 66, standard injection molding grade, non-reinforced, very easy release, normal solidification
Application Examples: terminal blocks, cable clips, bobbins, gearwheels

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	8.5 %	8.5 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.8 %	2.8 %	23°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	144 cm ³ /g	144 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	68 g/10 min @Load 5.00 kg, Temperature 270 °C	68 g/10 min @Load 11.0 lb, Temperature 518 °F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	Conditioned; ISO 527-1/-2
	85.0 MPa	12300 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal, Conditioned; ISO 527-1/-2
Elongation at Yield	4.5 %	4.5 %	ISO 527-1/-2
	20 %	20 %	Conditioned; ISO 527-1/-2
Tensile Modulus	1.30 GPa	189 ksi	Conditioned; ISO 527-1/-2
	3.20 GPa	464 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	
	NB	NB	

Mechanical Properties	Metric	English	Comments
	@ Temperature 23.0 Â°C	@ Temperature 73.4 Â°F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	Conditioned; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Puncture Energy	108 J	79.7 ft-lb	ISO 6603-2
	19.0 J	14.0 ft-lb	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 6603-2
	19.0 J	14.0 ft-lb	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	Conditioned; ISO 6603-2
Tensile Creep Modulus, 1 hour	1000 MPa	145000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	700 MPa	102000 psi	ISO 899-1

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	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	263 Â°C	505 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	225 Â°C	437 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Â°C	158 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	50.0 Â°C	122 Â°F	ISO 75-1/-2
Vicat Softening Point	230 Â°C	446 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	V-2	V-2	IEC 60695-11-10

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
	V-2	V-2	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	27 %	27 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Conditioned; IEC 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.0	4.0	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	10	10	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
	35.0 kV/mm	889 kV/in	Conditioned; IEC 60243-1
Dissipation Factor	0.0090	0.0090	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.090	0.090	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.20	0.20	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Form	Pellets	
ISO Shortname	ISO 1874-PA 66,MR,14-030	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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