

Lanxess Durethan® AC 30 000000 Nylon 66

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

Material Notes:

PA 66, injection molding-grade, non-reinforced, higher notched impact strength than A 30 / A 31 in the dry and conditioned state
Application Examples: plug connectors, cable binders, cable clips, parts with living hinges, furniture hinges

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption	8.0 %	8.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.5 %	2.5 %	23°C/50% R.H.; Test Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	Conditioned; ISO 527-1/-2
	80.0 MPa	11600 psi	ISO 527-1/-2
Elongation at Break	14 %	14 %	Nominal; ISO 527-1/-2
	>= 50 %	>= 50 %	Nominal, Conditioned; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-1/-2
	21 %	21 %	Conditioned; ISO 527-1/-2
Tensile Modulus	1.20 GPa	174 ksi	Conditioned; ISO 527-1/-2
	2.90 GPa	421 ksi	ISO 527-1/-2
Charpy Impact Unnotched	20.0 J/cm ²	95.2 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179/1eA
	<= 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	
	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Impact	4314	4314	Puncture maximum force, Conditioned (N); ISO 6603-2
	5050	5050	Puncture maximum force (N); ISO 6603-2
	5977	5977	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Puncture Energy	26.0 J	19.2 ft-lb	Conditioned; ISO 6603-2
	32.0 J	23.6 ft-lb	ISO 6603-2
	33.0 J	24.3 ft-lb	ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	33.0 J	24.3 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Tensile Creep Modulus, 1 hour	1100 MPa	160000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	800 MPa	116000 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	110 Âµm/m-Â°C	61.1 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	260 Â°C	500 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	160 Â°C	320 Â°F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 8.0 MPa	53.0 Â°C	127 Â°F	ISO 75-1/-2
Vicat Softening Point	200 Â°C	392 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	21 %	21 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 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	
	3.6	3.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.8	3.8	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	7.0	7.0	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
	30.0 kV/mm	762 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	
	0.070	0.070	Conditioned; IEC 60250
	@Frequency 1.00e+6	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
	0.14	0.14	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	
Features	High impact or high impact modified	
Form	Pellets	
ISO Shortname	ISO 1874-PA 66-I, MR, -030	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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