

## Lanxess Durethan® A 30 S 000000 Nylon 66

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

### Material Notes:

PA 66 standard injection molding-grade, non-reinforced, good demolding, very rapid solidification  
Application Examples: plug connectors, terminal blocks, cable clips, bobbins

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-A-30-S-000000-Nylon-66.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-A-30-S-000000-Nylon-66.php)

Physical Properties	Metric	English	Comments
Density	1.136 g/cc	0.04104 lb/in <sup>3</sup>	ISO 1183
Water Absorption	8.5 %	8.5 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.8 %	2.8 %	23 <sup>o</sup> C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	144 cm <sup>3</sup> /g	144 cm <sup>3</sup> /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	75 g/10 min @Load 5.00 kg, Temperature 270 <sup>o</sup> C	75 g/10 min @Load 11.0 lb, Temperature 518 <sup>o</sup> F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	Conditioned; ISO 527-1/-2
	95.0 MPa	13800 psi	ISO 527-1/-2
Elongation at Yield	4.5 %	4.5 %	ISO 527-1/-2
	18 %	18 %	Conditioned; ISO 527-1/-2
Tensile Modulus	1.60 GPa	232 ksi	Conditioned; ISO 527-1/-2
	3.60 GPa	522 ksi	ISO 527-1/-2
Charpy Impact Unnotched	10.0 J/cm <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	47.6 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	ISO 179/1eU
	15.0 J/cm <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	71.4 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	Conditioned; ISO 179/1eU
	15.0 J/cm <sup>2</sup> @Temperature 23.0 <sup>o</sup> C	71.4 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>o</sup> F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	4620	4620	Puncture maximum force, Conditioned (N); ISO 6603-2
	5505	5505	Puncture maximum force (N); ISO 6603-2
	6143	6143	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	27.0 J	19.9 ft-lb	Conditioned; ISO 6603-2
	30.0 J	22.1 ft-lb	ISO 6603-2
	26.0 J	19.2 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	26.0 J	19.2 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	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	263 °C	505 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	214 °C	417 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 8.0 MPa	55.0 Â°C	131 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
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	26 %	26 %	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
	30.0 kV/mm	762 kV/in	Conditioned; IEC 60243-1
Dissipation Factor	0.0060	0.0060	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.018	0.018	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	575 V	575 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Form	Pellets	
ISO Shortname	ISO 1874-PA 66,MR,14-040	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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