

## Lanxess Durethan® A 30 H2.0 901510 Nylon 66

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

### Material Notes:

PA 66 standard injection molding grade, non-reinforced, very easy release, good heat-ageing resistance  
Application Examples: terminal blocks, cable clips, bobbins, gearwheels

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-A-30-H20-901510-Nylon-66.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-A-30-H20-901510-Nylon-66.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	ISO 1183
Water Absorption	8.0 %	8.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.6 %	2.6 %	23°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	148 g/10 min @Load 5.00 kg, Temperature 280 °C	148 g/10 min @Load 11.0 lb, Temperature 536 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	Conditioned; ISO 527-1/-2
	90.0 MPa	13100 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal, Conditioned; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
	15 %	15 %	Conditioned; ISO 527-1/-2
Tensile Modulus	1.50 GPa	218 ksi	Conditioned; ISO 527-1/-2
	3.50 GPa	508 ksi	ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup> @Temperature -30.0 °C	42.8 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	9.00 J/cm <sup>2</sup> @Temperature -30.0 °C	42.8 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	10.0 J/cm <sup>2</sup> @Temperature 23.0	47.6 ft-lb/in <sup>2</sup>	ISO 179/1eU

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
	NB	NB	
	@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>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	Conditioned; ISO 179/1eA
	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA
	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	
	@Temperature 23.0 °C	@Temperature 73.4 °F	Conditioned; ISO 179/1eA
Impact	3900	3900	Puncture maximum force (N); ISO 6603-2
	4641	4641	Puncture maximum force, Conditioned (N); ISO 6603-2
	3170	3170	
	@Temperature -30.0 °C	@Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	20.0 J	14.8 ft-lb	ISO 6603-2
	28.0 J	20.7 ft-lb	Conditioned; ISO 6603-2
	8.20 J	6.05 ft-lb	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 6603-2
	8.20 J	6.05 ft-lb	
	@Temperature -30.0 °C	@Temperature -22.0 °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	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow			ISO 11359-1/-2

Thermal Properties	70.0 Åum/m-Å°C Metric	38.9 Åuin/in-Å°F English	Comments
Melting Point	263 Å°C	505 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	210 Å°C	410 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Å°C	158 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	50.0 Å°C	122 Å°F	ISO 75-1/-2
Vicat Softening Point	230 Å°C	446 Å°F	50Å°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	24 %	24 %	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+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.5	3.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	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	
Dielectric Strength	12	12	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	27.0 kV/mm	686 kV/in	Conditioned; IEC 60243-1
	29.0 kV/mm	737 kV/in	IEC 60243-1
Dissipation Factor	0.0060	0.0060	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.018	0.018	

Electrical Properties	Metric	English	Comments
	@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	
	0.32	0.32	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	575 V	575 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Lubricants	
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 1874-PA 66,MHR,14-030	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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