

## Lanxess Durethan® A 30 S H3.0 000000 Nylon 66, Injection Molding

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

### Material Notes:

PA 66, non-reinforced, injection molding Information provided by LANXESS.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-A-30-S-H30-000000-Nylon-66-Injection-Molding.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-A-30-S-H30-000000-Nylon-66-Injection-Molding.php)

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.011 cm/cm	0.011 in/in	60x60x2; 280Å°C / WZ 80Å°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.015 cm/cm	0.015 in/in	60x60x2; 280Å°C / WZ 80Å°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	cond.; ISO 527-1, -2; 50 mm/min
	95.0 MPa	13800 psi	d.a.m.; ISO 527-1, -2; 50 mm/min
Elongation at Yield	4.5 %	4.5 %	d.a.m.; ISO 527-1, -2; 50 mm/min
	18 %	18 %	cond.; ISO 527-1, -2; 50 mm/min
Tensile Modulus	1.60 GPa	232 ksi	cond.; ISO 527-1, -2; 1 mm/min
	3.80 GPa	551 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	50.0 MPa	7250 psi	cond., 2 mm/min; ISO 178-A
	@Strain 8.00 %	@Strain 8.00 %	
Flexural Yield Strength	130 MPa	18900 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 6.50 %	@Strain 6.50 %	
Flexural Modulus	40.0 MPa	5800 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	110 MPa	16000 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	1.30 GPa	189 ksi	cond., 2 mm/min; ISO 178-A
	3.20 GPa	464 ksi	d.a.m., 2 mm/min; ISO 178-A

Mechanical Properties	Metric <sup>1</sup> kJ/m <sup>2</sup>	English <sup>2</sup> ft-lb/in <sup>2</sup>	Comments
Izod Impact, Notched (ISO)	@Temperature 23.0 °C	@Temperature 73.4 °F	d.a.m.; ISO 180-1A
	<= 10.0 kJ/m <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	cond.; ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 10.0 kJ/m <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	d.a.m.; ISO 180-1A
Izod Impact, Notched (ISO)	@Temperature -30.0 °C	@Temperature -22.0 °F	d.a.m.; ISO 180-1A
	<= 10.0 kJ/m <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	cond.; ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 10.0 kJ/m <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	d.a.m.; ISO 180-1A
Charpy Impact Unnotched	10.0 J/cm <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	d.a.m.; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	15.0 J/cm <sup>2</sup>	71.4 ft-lb/in <sup>2</sup>	d.a.m.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	cond.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	cond.; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	d.a.m.; ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	d.a.m.; ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	cond.; 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>	d.a.m.; ISO 179-1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	cond.; ISO 179-1eA

Mechanical Properties	Metric @Temperature -40.0 Â°C	English @Temperature -40.0 Â°F	Comments
	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	cond.; ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	33.3 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1, -2
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	50.0 Âµin/in-Â°F @Temperature 73.4 - 131 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)	214 Â°C	417 Â°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Â°C	167 Â°F	ISO 75-1, -2
Vicat Softening Point	>= 230 Â°C @Load 5.10 kg	>= 446 Â°F @Load 11.2 lb	120Â°C/hour; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	280 Â°C	536 Â°F	for test specimens; ISO 294
	275 - 295 Â°C	527 - 563 Â°F	
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 66, GHR, 14-040	

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