

Lanxess Durethan® AC 30 DUS027 000000 Nylon 66

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

Material Notes:

PA 66, non-reinforced, injection molded, impact modified Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AC-30-DUS027-000000-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.111 g/cc	0.04014 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	at yield, conditioned, 50 mm/min; ISO 527-1,-2
	70.0 MPa	10200 psi	at yield, 50 mm/min; ISO 527-1,-2
Elongation at Break	18 %	18 %	50 mm/min; ISO 527-1,-2
	75 %	75 %	conditioned, 50 mm/min; ISO 527-1,-2
Elongation at Yield	5.8 %	5.8 %	ISO 527-1,-2
	25 %	25 %	conditioned; ISO 527-1,-2
Tensile Modulus	1.10 GPa	160 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	3.00 GPa	435 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	40.0 MPa	5800 psi	conditioned, 2 mm/min; ISO 178-A
	100 MPa	14500 psi	2 mm/min; ISO 178-A
Flexural Modulus	1.00 GPa	145 ksi	conditioned, 2 mm/min; ISO 178-A
	2.60 GPa	377 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ² @Temperature 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
	<= 10.0 kJ/m ² @Temperature -30.0 °C	<= 4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1A

Mechanical Properties	Metric	English	Comments
	25.0 J/cm ²	11.9 ft-lb/in ²	conditioned; ISO 180-1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	conditioned; ISO 179-1eA
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	2.50 J/cm ²	11.9 ft-lb/in ²	conditioned; ISO 179-1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
CTE, linear, Transverse to Flow	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
Melting Point	261 Å°C	502 Å°F	10 Å°C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	192 Å°C	378 Å°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	66.0 Å°C	151 Å°F	ISO 75-1,-2
Shrinkage	0.200 %	0.200 %	post-shrinkage, 60x60x2; ISO 294-4
	@Temperature 120 Å°C, Time 14400 sec	@Temperature 248 Å°F, Time 4.00 hour	
	0.200 %	0.200 %	post-shrinkage, transverse, 60x60x2; ISO 294-4
	@Temperature 120 Å°C, Time 14400 sec	@Temperature 248 Å°F, Time 4.00 hour	

Processing Properties	Metric	English	Comments
Melt Temperature	280 Å°C	536 Å°F	Injection molding; ISO 294

Mold Temperature Processing Properties	80.0 Â°C Metric	176 Â°F English	Injection molding; ISO 294 Comments
Dry Time	2.00 - 6.00 hour @Temperature 80.0 Â°C	2.00 - 6.00 hour @Temperature 176 Â°F	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer test

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China