

Lanxess Durethan® DP 2325 H3.0 000000 Nylon 66

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

Material Notes:

PA 66, injection molding grade, non-reinforced, elastomer-modified, good heat-ageing resistance, extremely high notched impact strength even at dry state and at low temperatures

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-2325-H30-000000-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.076 g/cc	0.03887 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	23°C/50% R.H.; Test Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0021 cm/cm	0.0021 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0016 cm/cm	0.0016 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	ISO 527-1/-2
	49.0 MPa	7110 psi	Conditioned; ISO 527-1/-2
Tensile Strength, Yield	30.0 MPa	4350 psi	Conditioned; ISO 527-1/-2
	50.0 MPa	7250 psi	ISO 527-1/-2
Elongation at Break	50 %	50 %	Nominal; ISO 527-1/-2
	50 %	50 %	Nominal, Conditioned; ISO 527-1/-2
	80 %	80 %	ISO 527-1/-2
	290 %	290 %	Conditioned; ISO 527-1/-2
Elongation at Yield	21 %	21 %	ISO 527-1/-2
	38 %	38 %	Conditioned; ISO 527-1/-2
Tensile Modulus	0.700 GPa	102 ksi	Conditioned; ISO 527-1/-2
	1.80 GPa	261 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU

Mechanical Properties	NB Metric	NB English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	Conditioned; ISO 179/1eU
	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ISO 179/1eU
	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	2.00 J/cmÂ² @Temperature -30.0 Â°C	9.52 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA
	2.00 J/cmÂ² @Temperature -30.0 Â°C	9.52 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eA
	5.00 J/cmÂ² @Temperature 23.0 Â°C	23.8 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA
	10.0 J/cmÂ² @Temperature 23.0 Â°C	47.6 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eA
Impact	3900	3900	Puncture maximum force (N); ISO 6603-2
	5400 @Temperature -30.0 Â°C	5400 @Temperature -22.0 Â°F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	50.0 J	36.9 ft-lb	ISO 6603-2
	60.0 J @Temperature -30.0 Â°C	44.3 ft-lb @Temperature -22.0 Â°F	ISO 6603-2
	60.0 J @Temperature -30.0 Â°C	44.3 ft-lb @Temperature -22.0 Â°F	Conditioned; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 Âµm/m-Â°C	72.2 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	130 Âµm/m-Â°C	72.2 Âµin/in-Â°F	ISO 11359-1/-2

Melting Point Thermal Properties	263 Â°C Metric	505 Â°F English	10Â°C/min; ISO 11357-1/-3 Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 Â°C	230 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C	140 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	50.0 Â°C	122 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	20 %	20 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	Conditioned; IEC 60093
	1.00e+19 ohm-cm	1.00e+19 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.5	3.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	7.0	7.0	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	40.0 kV/mm	1020 kV/in	IEC 60243-1
	45.0 kV/mm	1140 kV/in	Conditioned; IEC 60243-1
Dissipation Factor	0.0080	0.0080	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
	0.075	0.075	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.15	0.15	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	Heat stabilized or stable to heat	
	High impact or high impact modified	
Form	Pellets	
ISO Shortname	ISO 1874-PA 66,MPHR,-20	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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