

Lanxess Durethan® DP 2325 H3.0 DUS031 000000 Nylon 66

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

Material Notes:

PA 66, non-reinforced, injection molding, improved flowability, impact modified, heat-aging stabilized Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-2325-H30-DUS031-000000-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.076 g/cc	1.076 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	80 %	80 %	d.a.m.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	2.00 GPa	290 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	74.0 MPa @Strain 7.10 %	10700 psi @Strain 7.10 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Yield Strength	61.0 MPa @Strain 3.50 %	8850 psi @Strain 3.50 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Modulus	1.90 GPa	276 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	18.0 kJ/m ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	cond.; ISO 180-1A
	80.0 kJ/m ² @Temperature 23.0 °C	38.1 ft-lb/in ² @Temperature 73.4 °F	d.a.m.; ISO 180-1A
	90.0 kJ/m ² @Temperature -30.0 °C	42.8 ft-lb/in ² @Temperature -22.0 °F	d.a.m.; ISO 180-1A
Izod Impact, Unnotched (ISO)	NB	NB	d.a.m.; ISO 180-1U
	NB	NB	cond.; ISO 180-1U
Charpy Impact Unnotched	NB	NB	d.a.m.; ISO 179-1eU
	NB	NB	cond.; ISO 179-1eU
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	d.a.m.; ISO 179-1eA

Mechanical Properties	Metric @Temperature -30.0 Â°C	English @Temperature -22.0 Â°F	Comments
	8.50 J/cmÂ²	40.4 ft-lb/inÂ²	d.a.m.; ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	11.0 J/cmÂ²	52.3 ft-lb/inÂ²	cond.; ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Melting Point	263 Â°C	505 Â°F	10Â°C/min; ISO 11357-1, -3

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 Â°F	admissible residence time at Tmax >= 10 min
	280 Â°C	536 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 90.0 Â°C	176 - 194 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-HI, GHR, 12-020	

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