

Lanxess Durethan® DP 1100/30 H2.0 901510 Nylon 6, Micro Glass Balls

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Bead Filled

Material Notes:

PA6, molding grade, micro glass balls, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-110030-H20-901510-Nylon-6-Micro-Glass-Balls.php

Physical Properties	Metric	English	Comments
Density	1.351 g/cc	0.04881 lb/in ³	ISO 1183
Melt Flow	115 g/10 min @Load 5.00 kg, Temperature 280 °C	115 g/10 min @Load 11.0 lb, Temperature 536 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	Conditioned; ISO 527-1/-2
	75.0 MPa	10900 psi	ISO 527-1/-2
Tensile Strength, Yield	35.0 MPa	5080 psi	Conditioned; ISO 527-1/-2
	80.0 MPa	11600 psi	ISO 527-1/-2
Elongation at Break	6.0 %	6.0 %	ISO 527-1/-2
	155 %	155 %	Conditioned; ISO 527-1/-2
Elongation at Yield	3.5 %	3.5 %	ISO 527-1/-2
	15 %	15 %	Conditioned; ISO 527-1/-2
Tensile Modulus	1.35 GPa	196 ksi	Conditioned; ISO 527-1/-2
	4.30 GPa	624 ksi	ISO 527-1/-2
Charpy Impact Unnotched	2.00 J/cm ² @Temperature -30.0 °C	9.52 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	2.50 J/cm ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
	3.00 J/cm ² @Temperature -30.0 °C	14.3 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eU

Mechanical Properties	$\geq 15.0 \text{ J/cm}\hat{\text{A}}^2$ Metric	$\geq 71.4 \text{ ft-lb/in}\hat{\text{A}}^2$ English	Comments Conditioned; ISO 179/1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	0.300 J/cmÂ²	1.43 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 Âµm/m-Â°C	41.7 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	75.0 Âµm/m-Â°C	41.7 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	222 Â°C	432 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	180 Â°C	356 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Â°C	158 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	50.0 Â°C	122 Â°F	ISO 75-1/-2

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MHR,14-040,GB30	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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