

Lanxess Durethan® DP BC 500 H2.0 901510 Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

PA 6, extrusion and blow molding grade, non-reinforced, elastomer-modified, high viscosity, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-BC-500-H20-901510-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption	9.4 %	9.4 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	3.0 %	3.0 %	23°C/50% R.H.; Test Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0013 cm/cm	0.0013 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0014 cm/cm	0.0014 in/in	ISO 294-4, 2577
Melt Flow	40 g/10 min @Load 10.0 kg, Temperature 300 °C	40 g/10 min @Load 22.0 lb, Temperature 572 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	39.0 MPa	5660 psi	Conditioned; ISO 527-1/-2
	75.0 MPa	10900 psi	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
	28 %	28 %	Conditioned; ISO 527-1/-2
Tensile Modulus	0.750 GPa	109 ksi	Conditioned; ISO 527-1/-2
	2.70 GPa	392 ksi	ISO 527-1/-2
Charpy Impact Unnotched	22.0 J/cm ² @Temperature -30.0 °C	105 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	NB Metric	NB English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	Conditioned; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	15.0 J/cmÂ²	71.4 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	110 Âµm/m-Â°C	61.1 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	110 Âµm/m-Â°C	61.1 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)	135 Â°C	275 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

Descriptive Properties	Value	Comments
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,EHS,18-030	
Processing	Blow molding	
	Other extrusion	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	

Descriptive Properties	Value	Comments
	South and Central America	

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