

Lanxess Durethan® BC 700 HTS 900116 Nylon 6/66 (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , Unreinforced

Material Notes:

PA 6/66

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BC-700-HTS-900116-Nylon-666-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.027 g/cc	1.027 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	ISO 527-1,-2
Elongation at Yield	6.5 %	6.5 %	ISO 527-1,-2
Tensile Modulus	0.210 GPa	30.5 ksi	Conditioned; ISO 527-1,-2
	0.980 GPa	142 ksi	ISO 527-1,-2
Flexural Strength	12.0 MPa	1740 psi	Conditioned; ISO 178
	@Strain 9.00 %	@Strain 9.00 %	
	35.0 MPa	5080 psi	ISO 178
	@Strain 6.10 %	@Strain 6.10 %	
Flexural Yield Strength	7.00 MPa	1020 psi	Conditioned; ISO 178
	@Strain 3.50 %	@Strain 3.50 %	
	30.0 MPa	4350 psi	ISO 178
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	0.230 GPa	33.4 ksi	Conditioned; ISO 178
	0.980 GPa	142 ksi	ISO 178
Izod Impact, Notched (ISO)	85.0 kJ/m ²	40.4 ft-lb/in ²	ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	90.0 kJ/m ²	42.8 ft-lb/in ²	ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180-1U
Charpy Impact, Notched	10.5 J/cm ²	50.0 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	200 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	111 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-1,-2
CTE, linear, Transverse to Flow	200 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	111 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-1,-2
Melting Point	211 $^\circ\text{C}$	412 $^\circ\text{F}$	ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	53.0 $^\circ\text{C}$	127 $^\circ\text{F}$	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	48.0 $^\circ\text{C}$	118 $^\circ\text{F}$	ISO 75-1,-2

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 280 $^\circ\text{C}$	446 - 536 $^\circ\text{F}$	Recommended
	270 $^\circ\text{C}$	518 $^\circ\text{F}$	Processing conditions for test specimens; ISO 294
Mold Temperature	60.0 - 90.0 $^\circ\text{C}$	140 - 194 $^\circ\text{F}$	Recommended
	80.0 $^\circ\text{C}$	176 $^\circ\text{F}$	Processing conditions for test specimens; ISO 294
Drying Temperature	80.0 $^\circ\text{C}$	176 $^\circ\text{F}$	
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.00 - 0.060 %	0.00 - 0.060 %	Residual; Acc. To Karl Fischer

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6/66-HI,BHS,14-010	

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