

Durethan® BC 700 HTS DUSXBL 900116

Polyamide 6
LANXESS GmbH

Message:
PA 6-Copolymer, non-reinforced, blow molding, heat-aging stabilized, improved impact strength

General Information				
Additive		heat stabilizer		
Features		Impact resistance, good		
		Good heat aging resistance		
Processing Method		Blow molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.03	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	8.1	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.9	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness	65	59		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	980	210	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	28.0	--	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	6.5	--	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	980	230	MPa	ISO 178/A
Flexural Stress ²				
3.5% strain	30.0	7.00	MPa	ISO 178/A
23°C	35.0	12.0	MPa	ISO 178
Flexural Strain at Flexural Strength ³ (23°C)	6.1	9.0	%	
ISO Shortname	PA 6/66-HI, BHS, 14-010	--		ISO 1874
Residual Moisture Content	0.0 - 0.060		%	Karl Fisher
Films	Dry	Conditioned	Unit	Test Method
Film Puncture Energy				ISO 6603-2
-- ⁴	50.0	--	J	ISO 6603-2
-- ⁵	50.0	--	J	ISO 6603-2
Film Puncture Force				ISO 6603-2
-- ⁶	4100	--	N	ISO 6603-2
-- ⁷	3300	--	N	ISO 6603-2
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	75	--	kJ/m ²	ISO 179/1eA
23°C	110	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	70	--	kJ/m ²	ISO 180/1A
23°C	90	--	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	No Break	--		ISO 180/1U
23°C	No Break	No Break		ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	53.0	--	°C	ISO 75-2/B
1.8 MPa, not annealed	48.0	--	°C	ISO 75-2/A
Melting Temperature ⁸	212	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C	2.0E-4	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	2.0E-4	--	cm/cm/°C	ISO 11359-2
Injection	Dry	Unit	Test Method	
Drying Temperature - Dry Air Dryer	80.0		°C	
Drying Time - Dry Air Dryer	2.0 - 6.0		hr	
Processing (Melt) Temp	230 - 280		°C	
Mold Temperature	60.0 - 90.0		°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	Pull Rate: 2 mm/min; 50% RH			
4.	-30°C			
5.	23°C			
6.	-30°C			
7.	23°C			
8.	10°C/min			

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