

Durethan BC700HTS 900116 DUSXBL
PA6-I

LANXESS Deutschland GmbH

PA 6-Copolymer, non-reinforced, blow molding, heat-aging stabilized, improved impact strength, improved heat-aging stability. For the use in tank systems and pressure vessels please notice safety-related technical information within the High Performance Materials TechCenter under www.durethan-tank-systems.lanxess.com.

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	980 / 210	MPa	ISO 527
Yield stress	28 / -	MPa	ISO 527
Yield strain	6.5 / -	%	ISO 527
Charpy impact strength (+23°C)	no break / no break	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	no break / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	105 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	75 / -	kJ/m ²	ISO 179/1eA
Puncture - maximum force, +23°C	3300 / -	N	ISO 6603-2
Puncture - maximum force, -30°C	4100 / -	N	ISO 6603-2
Puncture energy, +23°C	50 / -	J	ISO 6603-2
Puncture energy, -30°C	50 / -	J	ISO 6603-2

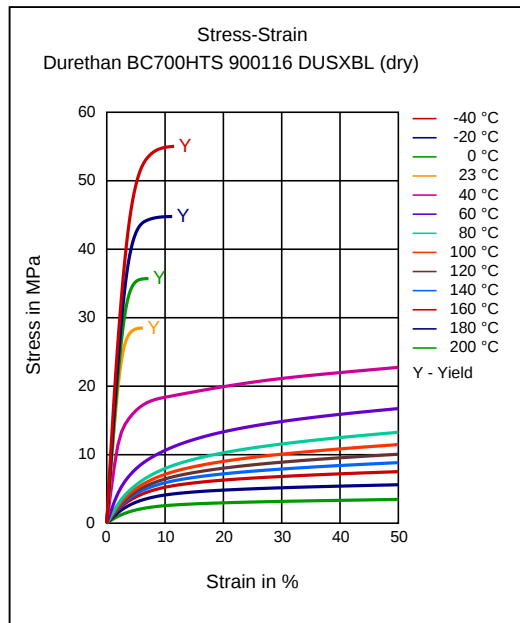
Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	212 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	48 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	53 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	200 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	200 / *	E-6/K	ISO 11359-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	8.1 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1030 / -	kg/m ³	ISO 1183

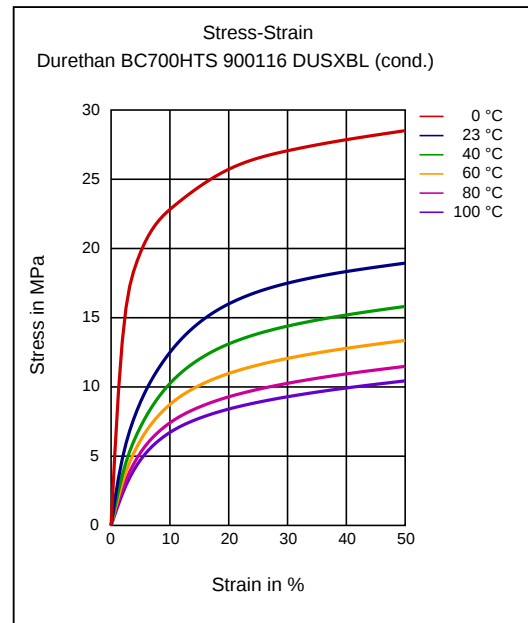
Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	270	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Diagrams

Stress-strain



Stress-strain



Characteristics

Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion, Blow Molding

Delivery form

Pellets

Injection Molding

PREPROCESSING

Residual moisture content: 0.00-0.06 %

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer: 2-6 h

PROCESSING

Melt temperature (Tmin - Tmax): 230-280 °C

Mold temperature: 60-90 °C

Special Characteristics

Impact modified, Heat aging stabilized

Disclaimer

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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