

Durethan[®] BC700HTS DUSXBL

PA*—I

Blow Molding Grade, Unreinforced, Heat Stabilized, Improved Impact

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	980 / 210	MPa	ISO 527-1/-2
Yield stress	37 / –	MPa	ISO 527-1/-2
Yield strain	6.5 / –	%	ISO 527-1/-2
Flexural modulus	980 / 230	MPa	ISO 178
Flexural strength	35 / 12	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N / –	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
Izod notched impact strength (+23°C)	90 / –	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
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)	2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	2 / *	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES			
	DRY / COND		
Water absorption	8.1 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1030 / –	kg/m ³	ISO 1183

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PROCESSING RECOMMENDATIONS			
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2-6	h	
Residual moisture content	0.00-0.06	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	230-280	°C	
Mold temperature	60-90	°C	

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