

Durethan® BC304H3.0

PA6-I

Injection Molding, Unreinforced, Heat Stabilized, Impact Modified

Print Date: 2025-08-21

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	1800 / 800	MPa	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Yield stress	45 / 35	MPa	ISO 527-1/-2
Yield strain	4.5 / 30	%	ISO 527-1/-2
Flexural modulus	1600 / 700	MPa	ISO 178
Flexural strength	60 / 30	MPa	ISO 178
Charpy impact strength (+23°C)	N/N	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	N/N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	85 / 120	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	20 / 20	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	70 / 100	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	50 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	90 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.5 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.6 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Oxygen index	21 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	650 / –	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2/-	mm	IEC 60695-2-12

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Property Data

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ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	3.3 / 11	_	IEC 62631-2-1
Relative permittivity (1 MHz)	3 / 3.5	_	IEC 62631-2-1
Dissipation factor (100 Hz)	70 / 1750	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	150 / 900	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
Electric strength	35 / 35	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Water absorption	7.5 / *	%	Sim. to ISO 62
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1060 / -	kg/m³	ISO 1183
PROCESSING RECOMMENDATIONS	VALUE		
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2–6	h	
Residual moisture content	0.03-0.12	%	acc. to Karl Fischer
Melt temperature (Tmin - Tmax)	260–280	°C	
Mold temperature	80-90	°C	

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Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

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