

Durethan® BKV15H3.0 DUS008

PA6—GF15

Injection Molding, 15% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2025-09-06

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	6000 / 3500	MPa	ISO 527-1/-2
Stress at break	125 / 65	MPa	ISO 527-1/-2
Strain at break	3 / 12	%	ISO 527-1/-2
Flexural modulus	5700 / 2800	MPa	ISO 178
Flexural strength	200 / 100	MPa	ISO 178
Tensile modulus (200°C)	1600	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	45 / 80	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	40 / 40	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 15	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6 / 6	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	6 / 10	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	195 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	4.6 / —	—	IEC 62631-2-1

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Relative permittivity (1 MHz)	4 / –	–	IEC 62631-2-1
Dissipation factor (100 Hz)	230 / –	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	270 / –	E-4	IEC 62631-2-1
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	– / 1E13	Ohm	IEC 62631-3-2
Electric strength	25 / 20	kV/mm	IEC 60243-1
Comparative tracking index	600 / –	V	IEC 60112

OTHER PROPERTIES	DRY / COND		
Water absorption	8 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1230 / –	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)	260-290	°C	
Mold temperature	80-100	°C	

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