

Durethan® BKV15GH2.0

PA6–GF15

15% Glass Reinforced, Injection Molding, Heat Stabilized, Excellent Surface Properties

Print Date: 2024–08–24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	6300 / 4000	MPa	ISO 527–1/–2
Stress at break	120 / 70	MPa	ISO 527–1/–2
Strain at break	3 / 11	%	ISO 527–1/–2
Flexural modulus	5700 / 3500	MPa	ISO 178
Flexural strength	185 / 125	MPa	ISO 178
Tensile modulus (200°C)	1280	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	30 / 40	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	35 / 35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / <10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10 / <10	kJ/m ²	ISO 179/1eA
Izod notched impact strength (–40°C)	<10 / <10	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	218 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	180 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	210 / *	°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)	0.8 / *	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	23 / *	%	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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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES			
<i>DRY / COND</i>			
Relative permittivity (100Hz)	4.1 / 10	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.7 / 4.3	–	IEC 62631-2-1
Dissipation factor (100 Hz)	80 / 2200	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	180 / 700	E-4	IEC 62631-2-1
Volume resistivity	1E11 / 1E9	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	30 / 30	kV/mm	IEC 60243-1
Comparative tracking index	375 / –	V	IEC 60112
OTHER PROPERTIES			
<i>DRY / COND</i>			
Water absorption	7.8 / *	%	Sim. to ISO 62
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1240 / –	kg/m ³	ISO 1183
MATERIAL SPECIFIC PROPERTIES			
<i>DRY / COND</i>			
Viscosity number	138 / *	cm ³ /g	ISO 307, 1157, 1628
PROCESSING RECOMMENDATIONS			
<i>VALUE</i>			
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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