

Durethan® BKV15GH2.0

PA6-GF15

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

Print Date: 2024-10-08

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
	DRY / COND		
MECHANICAL PROPERTIES			
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/m²	ISO 179/1eU
Charpy impact strength (-30°C)	35 / 35	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / <10	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10 / <10	kJ/m²	ISO 179/1eA
Izod notched impact strength (-40°C)	<10 / <10	kJ/m²	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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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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Property Data

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ELECTRICAL PROPERTIES DRY / COND Relative permittivity (100Hz) 41 / 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 / IE9 Ohm'm IEC 62631-3-1 Surface resistivity '/ 1E13 Ohm IEC 62631-3-2-2 Electric strength 30 / 30 kV/mm IEC 62631-3-2-2 Electric strength 30 / 30 kV/mm IEC 60243-1 Comparative tracking index 375 / - V IEC 60112 OTHER PROPERTIES Water absorption 7.8 / ' % Sim. to IS0 62 Humidity absorption 2.6 / ' % Sim. to IS0 62 Density 1240 / - kg/m³ IS0 1183 MATERIAL SPECIFIC PROPERTIES Dry ing temperature dry air dryer 80 °C Drying time dry air dryer 2-6	PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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MATERIAL SPECIFIC PROPERTIES Viscosity number 138 / * cm³/g ISO 307, 1157, 1628 PROCESSING RECOMMENDATIONS 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	Humidity absorption	2.6 / *	%	Sim. to ISO 62
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Melt temperature (Tmin – Tmax) 260–290 °C	Drying time dry air dryer	2–6	h	
The state of the s	Residual moisture content	0.03-0.12	%	
Mold temperature 80-100 °C	Melt temperature (Tmin — Tmax)	260-290	°C	
	Mold temperature	80–100	°C	

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