

## Durethan® BKV140H2.0

PA\*-I-GF40

40% Glass Reinforced, Injection Molding, Heat Stabilized, Improved Impact

Print Date: 2024-12-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	11500 / 6700	MPa	ISO 527-1/-2
Stress at break	180 / 115	MPa	ISO 527-1/-2
Strain at break	3/6	%	ISO 527-1/-2
Flexural modulus	10400 / 6500	MPa	ISO 178
Flexural strength	280 / 175	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 110	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	85 / 85	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 35	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / 10	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / 20	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	213 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200 / *	°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)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9 / *	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
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or

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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.

## Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Oxygen index	22 / *	%	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
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	4 / 10	_	IEC 62631-2-1
Relative permittivity (1 MHz)	4/5	_	IEC 62631-2-1
Volume resistivity	1E13 / 1E9	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
Electric strength	40 / 35	kV/mm	IEC 60243-1
Comparative tracking index	500 / -	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
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Water absorption	6 / *	%	Sim. to ISO 62
Water absorption Humidity absorption	1.6 / *	%	Sim. to ISO 62
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Humidity absorption	1.6 / *	%	Sim. to ISO 62
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Humidity absorption  Density	1.6 / * 1460 / –	%	Sim. to ISO 62
Humidity absorption  Density  MATERIAL SPECIFIC PROPERTIES  Viscosity number	1.6 / * 1460 / – DRY / COND	% kg/m³	Sim. to ISO 62 ISO 1183 ISO 307, 1157,
Humidity absorption  Density  MATERIAL SPECIFIC PROPERTIES  Viscosity number  PROCESSING RECOMMENDATIONS	1.6 / * 1460 / -  DRY / COND 134 / *  VALUE	% kg/m³ cm³/g	Sim. to ISO 62 ISO 1183 ISO 307, 1157,
Humidity absorption  Density  MATERIAL SPECIFIC PROPERTIES  Viscosity number  PROCESSING RECOMMENDATIONS  Drying temperature dry air dryer	1.6 / * 1460 / -  DRY / COND 134 / *  VALUE 80	% kg/m³ cm³/g	Sim. to ISO 62 ISO 1183 ISO 307, 1157,
Humidity absorption  Density  MATERIAL SPECIFIC PROPERTIES  Viscosity number  PROCESSING RECOMMENDATIONS  Drying temperature dry air dryer  Drying time dry air dryer	1.6 / * 1460 / -  DRY / COND 134 / *  VALUE 80 2-6	% kg/m³  cm³/g  °C h	Sim. to ISO 62 ISO 1183 ISO 307, 1157, 1628
Humidity absorption  Density  MATERIAL SPECIFIC PROPERTIES  Viscosity number  PROCESSING RECOMMENDATIONS  Drying temperature dry air dryer	1.6 / * 1460 / -  DRY / COND 134 / *  VALUE 80	% kg/m³ cm³/g	Sim. to ISO 62 ISO 1183 ISO 307, 1157,
Humidity absorption  Density  MATERIAL SPECIFIC PROPERTIES  Viscosity number  PROCESSING RECOMMENDATIONS  Drying temperature dry air dryer  Drying time dry air dryer	1.6 / * 1460 / -  DRY / COND 134 / *  VALUE 80 2-6	% kg/m³  cm³/g  °C h	Sim. to ISO 62 ISO 1183 ISO 307, 1157, 1628 acc. to Karl

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