

# Durethan<sup>®</sup> BKV140H2.0 DUS008

## PA6-I-GF40

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

Print Date: 2024-08-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.25 / *	%	ISO 294-4
Molding shrinkage (normal)	0.7 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	12500 / 7800	MPa	ISO 527-1/-2
Stress at break	180 / 120	MPa	ISO 527-1/-2
Strain at break	3.5 / 8.5	%	ISO 527-1/-2
Flexural modulus	11200 / -	MPa	ISO 178
Flexural strength	290 / 180	MPa	ISO 178
Charpy impact strength (+23°C)	95 / 110	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	95 / 90	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 30	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / 10	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / 30	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.9 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.2 / *	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

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## Property Data

# Durethan® BKV140H2.0 DUS008

Print Date: 2024-08-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	750 / –	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2 / –	mm	IEC 60695-2-12

### ELECTRICAL PROPERTIES

#### DRY / COND

Relative permittivity (100Hz)	4 / 9	–	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / 4	–	IEC 62631-2-1
Volume resistivity	1E13 / 1E9	Ohm*m	IEC 62631-3-1
Electric strength	35 / 43	kV/mm	IEC 60243-1
Comparative tracking index	425 / –	V	IEC 60112

### OTHER PROPERTIES

#### DRY / COND

Density	1460 / –	kg/m³	ISO 1183
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### 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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