

# Durethan<sup>®</sup> BKV50GH2.0EF

## PA6–GF50

50% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow, Excellent Surface Properties

Print Date: 2024–09–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.15 / *	%	ISO 294–4
Molding shrinkage (normal)	0.5 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	16500 / 11500	MPa	ISO 527–1/–2
Stress at break	220 / 150	MPa	ISO 527–1/–2
Strain at break	3 / 4.5	%	ISO 527–1/–2
Flexural modulus	15500 / 11000	MPa	ISO 178
Flexural strength	340 / 230	MPa	ISO 178
Charpy notched impact strength (+23°C)	15 / 17	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	13 / 12	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / 18	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)	204 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	219 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.151 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.714 / *	E–4/°C	ISO 11359–1/–2
<b>OTHER PROPERTIES</b>			
	<b>DRY / COND</b>		
Density	1570 / –	kg/m <sup>3</sup>	ISO 1183

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>PROCESSING RECOMMENDATIONS</b>			
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)	270-290	°C	
Mold temperature	80-120	°C	

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