

# Durethan® BKV50H3.0 DUS037

## PA6–GF50

50% Glass Reinforced, Injection Molding, Heat Stabilized

Print Date: 2024–09–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	16800 / 10200	MPa	ISO 527–1/–2
Stress at break	225 / 140	MPa	ISO 527–1/–2
Strain at break	3 / 5	%	ISO 527–1/–2
Flexural modulus	15500 / 9900	MPa	ISO 178
Flexural strength	360 / 230	MPa	ISO 178
Charpy impact strength (+23°C)	100 / 110	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	90 / 90	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 25	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	15 / 15	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	20 / 25	kJ/m <sup>2</sup>	ISO 180/1A
<b>OTHER PROPERTIES</b>			
	<b>DRY / COND</b>		
Density	1570 / –	kg/m <sup>3</sup>	ISO 1183
<b>MATERIAL SPECIFIC PROPERTIES</b>			
	<b>DRY / COND</b>		
Viscosity number	140 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628
<b>PROCESSING RECOMMENDATIONS</b>			
	<b>VALUE</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	

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## Property Data

# Durethan<sup>®</sup> BKV50H3.0 DUS037

Print Date: 2024-09-17

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Mold temperature	80-120	°C	

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