

# Durethan<sup>®</sup> BKV130GIT DUS008

## PA6–I–GF30

30% Glass Reinforced, Injection Molding, Improved Impact

Print Date: 2025–02–01

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294–4
Molding shrinkage (normal)	0.5 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>	<b>DRY / COND</b>		
Tensile modulus	9000 / 5000	MPa	ISO 527–1/–2
Stress at break	160 / 95	MPa	ISO 527–1/–2
Strain at break	3.4 / 7.5	%	ISO 527–1/–2
Flexural modulus	8500 / 4900	MPa	ISO 178
Flexural strength	256 / 145	MPa	ISO 178
Charpy impact strength (+23°C)	85 / 85	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	65 / 60	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 20	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 / 15	kJ/m²	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)	195 / *	°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
<b>OTHER PROPERTIES</b>	<b>DRY / COND</b>		

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Density	1360 / –	kg/m³	ISO 1183
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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