

Durethan® BKV50GW1 DUS037

PA6—GF50

50% Glass Reinforced, Injection Molding

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
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/m²	ISO 179/1eU
Charpy impact strength (-30°C)	90 / 90	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	15 / 15	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	20 / 25	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES	DRY / COND		
Density	1570 / -	kg/m³	ISO 1183
MATERIAL SPECIFIC PROPERTIES	DRY / COND		
Viscosity number	140 / *	cm³/g	ISO 307, 1157, 1628
PROCESSING RECOMMENDATIONS	VALUE		
Drying temperature dry air dryer	80	°C	

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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	