

Durethan® BKV50GH2.0EF

PA6—GF50

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

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.15 / *	%	ISO 294-4
Molding shrinkage (normal)	0.5 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
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/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	13 / 12	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / 18	kJ/m²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
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
OTHER PROPERTIES			
	DRY / COND		
Density	1570 / -	kg/m³	ISO 1183

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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)	270–290	°C	
Mold temperature	80–120	°C	