

Durethan® BKV40H2.0EF DUS001

PA6—GF40

40% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.6 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	12500 / 7500	MPa	ISO 527-1/-2
Stress at break	205 / 130	MPa	ISO 527-1/-2
Strain at break	3.5 / 6	%	ISO 527-1/-2
Flexural modulus	11500 / 7000	MPa	ISO 178
Flexural strength	315 / 185	MPa	ISO 178
Tensile modulus (200°C)	4290	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	100 / 100	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	85 / 90	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 30	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 12	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	17 / 30	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)	206 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	221 / *	°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)	0.95 / *	E-4/°C	ISO 11359-1/-2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
OTHER PROPERTIES	DRY / COND		
Water absorption	5.8 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1460 / –	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)	270–290	°C	
Mold temperature	80–120	°C	