

Durethan® BKV130GIT DUS008

PA6-I-GF30

30% Glass Reinforced, Injection Molding, Improved Impact

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.5 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
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
THERMAL PROPERTIES			
	DRY / COND		
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

OTHER PROPERTIES

DRY / COND



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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	

