

Durethan® BKV30W1 DUS037

PA6–GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
MECHANICAL PROPERTIES			
	<i>DRY / COND</i>		
Tensile modulus	9800 / 6100	MPa	ISO 527-1/-2
Stress at break	180 / 105	MPa	ISO 527-1/-2
Strain at break	3.8 / 6	%	ISO 527-1/-2
Flexural modulus	8600 / 5100	MPa	ISO 178
Flexural strength	280 / 170	MPa	ISO 178
Charpy impact strength (+23°C)	80 / 90	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	70 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	13 / 20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / 10	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	13 / 20	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75-1/-2
OTHER PROPERTIES			
	<i>DRY / COND</i>		
Density	1360 / -	kg/m ³	ISO 1183
PROCESSING RECOMMENDATIONS			
	<i>VALUE</i>		
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

Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Melt temperature (Tmin – Tmax)	270–290	°C	
Mold temperature	80–120	°C	