

# Durethan® BKV140 DUS008

## PA6-I-GF40

40% Glass Reinforced, Injection Molding, Improved Impact

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.21 / *	%	ISO 294-4
Molding shrinkage (normal)	0.75 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	12000 / 7100	MPa	ISO 527-1/-2
Stress at break	185 / 120	MPa	ISO 527-1/-2
Strain at break	3.5 / 6.5	%	ISO 527-1/-2
Flexural modulus	11500 / 7000	MPa	ISO 178
Flexural strength	295 / 185	MPa	ISO 178
Charpy impact strength (+23°C)	105 / 115	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	100 / 80	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 25	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / 15	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / 25	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	201 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	217 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.15 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1 / *	E-4/°C	ISO 11359-1/-2

### OTHER PROPERTIES

**DRY / COND**

## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Water absorption	5.7 / *	%	Sim. to ISO 62
Density	1450 / –	kg/m <sup>3</sup>	ISO 1183
<b><i>PROCESSING RECOMMENDATIONS</i></b>			
	<b><i>VALUE</i></b>		
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	