

Durethan® BKV220H2.0

PA6-I-GF20

20% Glass Reinforced, Injection Molding, Heat Stabilized, Improved Impact

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.7 / *	%	ISO 294-4
Molding shrinkage (normal)	0.6 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	5300 / 2500	MPa	ISO 527-1/-2
Stress at break	85 / 45	MPa	ISO 527-1/-2
Strain at break	4.5 / 13.5	%	ISO 527-1/-2
Flexural modulus	4400 / 2400	MPa	ISO 178
Flexural strength	130 / 70	MPa	ISO 178
Charpy impact strength (+23°C)	70 / 95	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	79 / 76	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	22 / 35	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 11	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	22 / 34	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	221 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	175 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	210 / *	°C	ISO 75-1/-2
OTHER PROPERTIES			
	DRY / COND		
Density	1210 / -	kg/m ³	ISO 1183

Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
PROCESSING RECOMMENDATIONS			
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	