

Durethan[®] BKV320ZH2.0

PA6-I-GF20

20% Glass Reinforced, Blow Molding Grade, Heat Stabilized, Improved Impact

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.8 / *	%	ISO 294-4
Molding shrinkage (normal)	0.6 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	6500 / 3200	MPa	ISO 527-1/-2
Stress at break	120 / 70	MPa	ISO 527-1/-2
Strain at break	4.5 / 13	%	ISO 527-1/-2
Flexural modulus	5800 / 2900	MPa	ISO 178
Flexural strength	190 / 100	MPa	ISO 178
Tensile modulus (200°C)	1540	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	85 / 90	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	90 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 35	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)	20 / 35	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)	191 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	212 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.5 / *	E-4/°C	ISO 11359-1/-2

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
OTHER PROPERTIES			
Density	1240 / –	kg/m ³	ISO 1183
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)	270–290	°C	
Mold temperature	80–120	°C	

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