

Durethan® AKV320ZH2.0

PA66-I-GF20

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

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	<i>DRY / COND</i>		
Tensile modulus	6400 / 3500	MPa	ISO 527-1/-2
Stress at break	120 / 75	MPa	ISO 527-1/-2
Strain at break	4.9 / 17.6	%	ISO 527-1/-2
Flexural modulus	5400 / 3000	MPa	ISO 178
Flexural strength	190 / 105	MPa	ISO 178
Tensile modulus (200°C)	1750	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	85 / 115	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	95 / 115	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 30	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)	15 / 30	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	259 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	221 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	250 / *	°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)	1.2 / *	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES			
	<i>DRY / COND</i>		
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1250 / -	kg/m ³	ISO 1183

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PROCESSING RECOMMENDATIONS			
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2–6	h	
Residual moisture content	0.00–0.06	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	280–300	°C	
Mold temperature	80–120	°C	