

Durethan BKV320ZH2.0 900116

PA 6, 20 % glass fibers, blow molding, heat-aging stabilized

ISO Shortname: ISO 16396-PA 6,GF20,BHR,S14-070

Property	Test Condition	Unit	Standard	guide value ¹	
				d.a.m.	cond.
Rheological properties					
C Molding shrinkage, parallel	60x60x2; 280 °C / MT 80 °C	%	ISO 294-4	0.8	
C Molding shrinkage, transverse	60x60x2; 280 °C / MT 80 °C	%	ISO 294-4	0.6	
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1	
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1	
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	6500	3200
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	120	70
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	4.5	13
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	85	90
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	90	70
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	20	35
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	10	<10
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	70	110
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	100	70
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	20	35
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	10	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	5800	2900
Flexural strength	2 mm/min	MPa	ISO 178-A	190	100
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	5.5	7
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	170	75
Thermal properties					
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	221	
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	191	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	212	
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	206	
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.3	
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1.5	
Other properties (23 °C)					
C Density		kg/m ³	ISO 1183	1242	
Bulk density		kg/m ³	ISO 60	700	
Processing conditions for test specimens					
C Injection molding-Melt temperature		°C	ISO 294	280	
C Injection molding-Mold temperature		°C	ISO 294	80	
Processing recommendations					
Drying temperature dry air dryer		°C	-	80	
Drying time dry air dryer		h	-	2-6	
Residual moisture content		%	Acc. to Karl Fischer	0.03-0.12	



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Melt temperature (Tmin - Tmax)		°C	-	d.a.m. 270-290 cond.
Mold temperature		°C	-	80-120

Notes

1 Typical properties: these are not to be construed as specifications

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.



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Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

Flammability

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