

Durethan BKV25H2.0 901510

PA 6, 25 % glass fibers, injection molding, heat-aging stabilized

ISO Shortname: ISO 16396-PA 6,GF25,GHR,S14-080

Property	Test Condition	Unit	Standard	guide value ¹ d.a.m. cond.	
Rheological properties					
Molding shrinkage, parallel	150x105x3; 280 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.21	
Molding shrinkage, transverse	150x105x3; 280 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.88	
Post- shrinkage, parallel	150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.04	
Post- shrinkage, transverse	150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.14	
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	8400	5100
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	160	90
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.0	6.0
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	60	80
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	45	45
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	< 10	10
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	< 10	< 10
Charpy notched impact strength	-40 °C	kJ/m ²	ISO 179-1eA	< 10	< 10
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	< 10	< 10
Izod notched impact strength	-40 °C	kJ/m ²	ISO 180-1A	< 10	< 10
Flexural modulus	2 mm/min	MPa	ISO 178-A	7200	4200
Flexural strength	2 mm/min	MPa	ISO 178-A	250	145
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	5.0	6.0
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	230	120
Ball indentation hardness		N/mm ²	ISO 2039-1	190	90
Thermal properties					
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	222	
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	200	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	215	
C Burning behavior UL 94	1.5 mm	Class	UL 94	HB	
C Burning behavior UL 94	0.75 mm	Class	UL 94	HB	
Other properties (23 °C)					
C Density		kg/m ³	ISO 1183	1320	
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	
Melt temperature (Tmin - Tmax)		°C	-	270-290	



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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

Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

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