

Durethan BKV130CS 600091 DUS008

PA6, 30% glass fibers, injection molding, improved impact strength

ISO Shortname: ISO 16396-PA 6-I,GF30,GR,S14-100

Property	Test Condition	Unit	Standard	guide value ¹ d.a.m. cond.
Rheological properties				
C Molding shrinkage, parallel	60x60x2; 280 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.25
C Molding shrinkage, transverse	60x60x2; 280 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.75
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.05
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.09
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	9200
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	145
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.5
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	75
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	55
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	<10
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	<10
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	65
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	60
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	12
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	8500
Flexural strength	2 mm/min	MPa	ISO 178-A	245
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.3
Thermal properties				
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	220
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	210
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.2
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1.1
C Burning behavior UL 94	0.75 mm	Class	UL 94	HB
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1360
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	-	260-290
Mold temperature		°C	-	80-100



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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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Typical Properties

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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Color and Visual Effects

Type and quantity of pigments or additives used to obtain certain colors and special visual effects can affect mechanical properties.

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