

# Datasheet

## Durethan BKV130CS 600091 DUS008

PA 6, 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 <sup>1</sup>	
				d.a.m.	cond.
<b>Rheological properties</b>					
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	
<b>Mechanical properties (23 °C/50 % r. h.)</b>					
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 <sup>2</sup>	ISO 179-1eU	75	
C Charpy impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 179-1eU	55	
C Charpy notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eA	<10	
C Charpy notched impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 179-1eA	<10	
Izod impact strength	23 °C	kJ/m <sup>2</sup>	ISO 180-1U	65	
Izod impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 180-1U	60	
Izod notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 180-1A	12	
Izod notched impact strength	-30 °C	kJ/m <sup>2</sup>	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	
<b>Thermal properties</b>					
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 <sup>-4</sup> /K	ISO 11359-1,-2	0.2	
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	1.1	
C Burning behavior UL 94	0.75 mm	Class	UL 94	HB	
<b>Other properties (23 °C)</b>					
C Density		kg/m <sup>3</sup>	ISO 1183	1360	
<b>Processing conditions for test specimens</b>					
C Injection molding-Melt temperature		°C	ISO 294	280	
C Injection molding-Mold temperature		°C	ISO 294	80	

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Property	Test Condition	Unit	Standard	guide value <sup>1</sup> d.a.m. cond.
<b>Processing recommendations</b>				
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

**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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