

# Datasheet

## Durethan BKV130P 702214

PA 6, 30% glass fibers, injection molding, improved impact strength, improved fatigue behavior

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>Mechanical properties (23 °C/50 % r. h.)</b>					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	9300	5100
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	155	100
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	4.2	11.5
Tensile modulus	1 mm/min; 120 °C	MPa	ISO 527-1,-2	3700	
Tensile Stress at break	5 mm/min; 120 °C	MPa	ISO 527-1,-2	85	
Tensile Strain at break	5 mm/min; 120 °C	%	ISO 527-1,-2	14.5	
C Charpy impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eU	95	
C Charpy impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 179-1eU	85	
C Charpy notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eA	12	
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	80	100
Izod impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 180-1U	80	
Izod notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 180-1A	14	
Izod notched impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 180-1A	<10	
Flexural modulus	2 mm/min	MPa	ISO 178-A	8700	5100
Flexural strength	2 mm/min	MPa	ISO 178-A	260	150
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	4.5	7
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	245	120
<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	205	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	222	
<b>Other properties (23 °C)</b>					
C Density		kg/m <sup>3</sup>	ISO 1183	1360	
Bulk density		kg/m <sup>3</sup>	ISO 60	700	
<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	
<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	-	260-280	

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Mold temperature		°C	-	d.a.m. cond. 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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Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

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