

## Durethan BKV135 00000 DUS008

PA 6, 35 % glass fibers, injection molding, improved impact strength

ISO Shortname: ISO 16396-PA 6-I,GF35,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	10200	6000
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	170	110
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3	7
C Charpy impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eU	100	110
C Charpy impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 179-1eU	85	85
C Charpy notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eA	20	30
C Charpy notched impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 179-1eA	10	10
Flexural modulus	2 mm/min	MPa	ISO 178-A	9100	5500
Flexural strength	2 mm/min	MPa	ISO 178-A	280	170
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	4	6
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	260	140
<b>Thermal properties</b>					
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	
<b>Other properties (23 °C)</b>					
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	290	
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	-	260-290	
Mold temperature		°C	-	80-100	

### Notes

<sup>1</sup> 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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