

## **Datasheet**

## **Durethan BKV230 000000 DUS008**

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

ISO Shortname: ISO 16396-PA 6-I,GF30,GR,S14-080

Rheological properties  C Molding shrinkage, parallel 60x60x2; 2 °C; 600 bar	30 °C / MT 80 %	ISO 294-4	d.a.m.	cond.
	80 °C / MT 80 %	ISO 294-4	0.3	
C, 000 bai				
C Molding shrinkage, transverse 60x60x2; 2 °C; 600 bar		ISO 294-4	0.8	
Post- shrinkage, parallel 60x60x2; 1	20 °C; 4 h %	ISO 294-4	0.07	
Post- shrinkage, transverse 60x60x2; 1	20 °C; 4 h %	ISO 294-4	0.16	
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus 1 mm/min	MPa	ISO 527-1,-2	8500	4200
C Tensile Stress at break 5 mm/min	MPa	ISO 527-1,-2	130	80
C Tensile Strain at break 5 mm/min	%	ISO 527-1,-2	4.1	8.6
C Charpy impact strength 23 °C	kJ/m²	ISO 179-1eU	85	100
C Charpy impact strength -30 °C	kJ/m²	ISO 179-1eU	95	90
C Charpy notched impact strength 23 °C	kJ/m²	ISO 179-1eA	20	37
C Charpy notched impact strength -30 °C	kJ/m²	ISO 179-1eA	13	13
Izod impact strength 23 °C	kJ/m²	ISO 180-1U	75	95
Izod impact strength -30 °C	kJ/m²	ISO 180-1U	80	80
Izod notched impact strength 23 °C	kJ/m²	ISO 180-1A	20	35
Izod notched impact strength -30 °C	kJ/m²	ISO 180-1A	15	15
Flexural modulus 2 mm/min	MPa	ISO 178-A	7400	4200
Flexural strength 2 mm/min	MPa	ISO 178-A	205	125
Flexural strain at flexural strength 2 mm/min	%	ISO 178-A	4.8	6.6
Flexural stress at 3.5 % strain 2 mm/min	MPa	ISO 178-A	190	100
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	198	
C Temperature of deflection under load 0.45 MPa	°C	ISO 75-1,-2	218	
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/m³	ISO 1183	1320	
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				



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Property	Test Condition	Unit	Standard	guide value 1
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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Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

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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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