

Datasheet

Durethan BKV30W1 000000 DUS037

PA 6, 30% glass fibers, injection molding, weather stabilized, heat-aging stabilized

ISO Shortname: ISO 16396-PA 6,GF30,GHLR,S14-100

Property	Test Condition	Unit	Standard	guide value ¹	
				d.a.m.	cond.
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	9800	6100
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	180	105
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.8	6
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	80	90
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	70	70
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	13	20
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	10	10
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	75	85
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	70	70
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	13	20
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	10	10
Flexural modulus	2 mm/min	MPa	ISO 178-A	8600	5100
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		145
Thermal properties					
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	222	
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	215	
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	-	270-290	
Mold temperature		°C	-	80-120	

Notes

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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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