

Datasheet

Durethan BKV50H3.0 000000 DUS037

PA 6, 50% glass fibers, injection molding, heat-aging stabilized,

ISO Shortname: ISO 16396-PA 6,GF50,GHR,S14-160

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	16800	10200
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	225	140
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.0	5.0
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	100	110
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	90	90
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	20	25
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	15	15
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	95	100
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	95	95
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	20	25
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	15	15
Flexural modulus	2 mm/min	MPa	ISO 178-A	15500	9900
Flexural strength	2 mm/min	MPa	ISO 178-A	360	230
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.0	5.0
Other properties (23 °C)					
C Density		kg/m ³	ISO 1183	1570	
Bulk density		kg/m ³	ISO 60	700	
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

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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