

Datasheet

Durethan BKV115H3.0 000000 DUS008

PA 6, 15% glass fibers, injection molding, improved impact strength, heat-aging stabilized

ISO Shortname: ISO 16396-PA 6-I,GF15,GHR,S14-060

Property	Test Condition	Unit	Standard	guide value ¹	
				d.a.m.	cond.
Rheological properties					
C Molding shrinkage, parallel	60x60x2; 280 °C / MT 80 °C	%	ISO 294-4	0.45	
C Molding shrinkage, transverse	60x60x2; 280 °C / MT 80 °C	%	ISO 294-4	0.55	
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.10	
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.15	
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	5600	2800
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	115	65
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	4	12
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	65	110
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	50	
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	<10	15
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	<10	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	4900	2500
Flexural strength	2 mm/min	MPa	ISO 178-A	185	95
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	5	8
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	165	70
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	195	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	215	
Glow wire test (GWIT)	0.75 mm	°C	IEC 60695-2-13	725	
Glow wire test (GWIT)	1.5 mm	°C	IEC 60695-2-13	700	
Other properties (23 °C)					
C Density		kg/m ³	ISO 1183	1228	
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	

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Property	Test Condition	Unit	Standard	guide value ¹
Melt temperature (Tmin - Tmax)		°C	-	<small>d.a.m.</small> 260-290 <small>cond.</small>
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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