

Data sheet

Durethan BKV15H3.0 000000 DUS008

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

ISO Shortname: ISO 16396-PA 6,GF15,GHR,S14-070

Property	Test Condition	Unit	Standard	guide value	
				d.a.m.	cond.
Rheological properties					
Molding shrinkage, parallel	150x105x3; 280 °C / MT 80 °C; 500 % bar		acc. ISO 2577	0.35	
Molding shrinkage, transverse	150x105x3; 280 °C / MT 80 °C; 500 % bar		acc. ISO 2577	0.60	
Post- shrinkage, parallel	150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.15	
Post- shrinkage, transverse	150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.15	
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	6500	3100
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	130	65
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3	12
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	50	100
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	45	45
Izod impact strength	23 °C	kJ/m²	ISO 180-1U	45	85
Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	40	40
Izod notched impact strength	23 °C	kJ/m²	ISO 180-1A	<10	10
Flexural modulus	2 mm/min	MPa	ISO 178-A	5500	3100
Flexural strength	2 mm/min	MPa	ISO 178-A	205	110
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	5.3	8
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	180	80
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	
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10-4/K	ISO 11359-1,-2	0.3	
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10-4/K	ISO 11359-1,-2	1	
C Burning behavior UL 94		Class	UL 94	HB	
Electrical properties (23 °C/50 % r. h.)					
C Volume resistivity		Ohm·m	IEC 60093	2.61E+15	
C Surface resistivity		Ohm	IEC 60093	8.15E+13	
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	550	
Other properties (23 °C)					
C Density		kg/m³	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	
Melt temperature (Tmin - Tmax)		°C	-	260-290	
Mold temperature		°C	-	80-100	

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.

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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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Type and quantity of pigments or additives used to obtain certain colors and special visual effects can affect mechanical properties.

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