

Datasheet Durethan BKV15 000000 DUS037

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

ISO Shortname: ISO 16396-PA 6/66,GF15,GHR,S14-060

Property	Test Condition	Unit	Standard	guide value ¹	
Rheological properties					
Molding shrinkage, parallel	150x105x3; 280 °C / MT 80 °C; 500 bar	%	acc. ISO 294-4	0.29	
Molding shrinkage, transverse	150x105x3; 280 °C / MT 80 °C; 500 bar	%	acc. ISO 294-4	0.88	
Post- shrinkage, parallel	150x105x3; 120 °C; 4 h	%	acc. ISO 294-4	0.08	
Post- shrinkage, transverse	150x105x3; 120 °C; 4 h	%	acc. ISO 294-4	0.21	
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	6000	3000
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	125	75
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	45	70
C Charpy notched impact strength	23 °C	kJ/m²	ISO 179-1eA	<10	10
C Charpy notched impact strength	-30 °C	kJ/m²	ISO 179-1eA	<10	<10
Izod impact strength	23 °C	kJ/m²	ISO 180-1U	30	80
Izod notched impact strength	-30 °C	kJ/m²	ISO 180-1A	<10	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	5200	3100
Flexural strength	2 mm/min	MPa	ISO 178-A	200	120
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	180	90
Thermal properties					
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	213	
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	190	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	210	
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	0.8	
Other properties (23 °C)					
C Density		kg/m³	ISO 1183	1230	
Bulk density		kg/m³	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	



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Property	Test Condition	Unit	Standard	guide value ¹
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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