

Durethan BKV130W1 00000 DUS008

PA 6, 30% glass fibers, injection molding, improved impact strength, weather stabilized

ISO Shortname: ISO 16396-PA 6-I,GF30,GLR,S14-090

Property	Test Condition	Unit	Standard	guide value ¹	
				d.a.m.	cond.
Rheological properties					
C Molding shrinkage, parallel	60x60x2; 280 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.25	
C Molding shrinkage, transverse	60x60x2; 280 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.65	
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1	
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	9000	5200
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	160	100
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	4	7
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	95	110
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	80	80
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	15	25
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	85	100
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	75	75
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	15	25
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	10	10
Flexural modulus	2 mm/min	MPa	ISO 178-A	8000	4800
Flexural strength	2 mm/min	MPa	ISO 178-A	255	145
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	4.5	7
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	240	115
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	200	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	215	
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	>200	
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.2	
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1.1	
Other properties (23 °C)					
C Density		kg/m ³	ISO 1183	1355	
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	



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Property	Test Condition	Unit	Standard	guide value ¹ d.a.m. cond.
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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Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

Flammability

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