

Durethan BKV35CXH2.0 900876

PA 6, 35 % glass fibers, injection molding, heat aging stabilized

ISO Shortname: ISO 16396-PA 6,GF35,GHR,S10-100

Property	Test Condition	Unit	Standard	guide value ¹	
				d.a.m.	cond.
Rheological properties					
C Molding shrinkage, parallel	60x60x2; 270 °C / WZ 120 °C; 600 bar	%	ISO 294-4	0.2	
C Molding shrinkage, transverse	60x60x2; 270 °C / WZ 120 °C; 600 bar	%	ISO 294-4	0.65	
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.05	
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	10500	6500
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	180	110
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.0	5.5
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	85	85
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	65	60
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	12	18
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	75	75
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	65	60
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	12	18
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	10	10
Flexural modulus	2 mm/min	MPa	ISO 178-A	10000	6000
Flexural strength	2 mm/min	MPa	ISO 178-A	270	175
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.5	6
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	270	145
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	205	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	220	
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	
C Burning behavior UL 94	1.5 mm	Class	UL 94	HB	
Other properties (23 °C)					
C Density		kg/m ³	ISO 1183	1405	
Bulk density		kg/m ³	ISO 60	600	
Processing conditions for test specimens					
C Injection molding-Melt temperature		°C	ISO 294	270	
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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Melt temperature (Tmin - Tmax)		°C	-	d.a.m. 250-290 cond.
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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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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Type and quantity of pigments or additives used to obtain certain colors and special visual effects can affect mechanical properties.

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