

Datasheet

Durethan BKV130H2.0EF 900116

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

ISO Shortname: ISO 16396-PA 6-I,GF30,GHR,S10-090

Property	Test Condition	Unit	Standard	guide value ¹	
				d.a.m.	cond.
Rheological properties					
C Molding shrinkage, parallel	60x60x2; 600 bar	%	ISO 294-4	0.25	
C Molding shrinkage, transverse	60x60x2; 600 bar	%	ISO 294-4	0.7	
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.05	
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1	
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	9000	
Tensile Stress at break	5 mm/min; 120 °C	MPa	ISO 527-1,-2	150	
Tensile Strain at break	5 mm/min; 120 °C	%	ISO 527-1,-2	4	
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	90	90
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	85	85
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	12	20
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	85
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	70	
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	13	20
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	10	10
Flexural modulus	2 mm/min	MPa	ISO 178-A	8300	
Flexural strength	2 mm/min	MPa	ISO 178-A	235	
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	4	
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	230	
Thermal properties					
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	206	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	150	
Other properties (23 °C)					
C Water absorption (Equilibrium value)	23 °C; 50 % RH	%	ISO 62	2.13	
C Density		kg/m ³	ISO 1183	1345	
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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Property	Test Condition	Unit	Standard	guide value ¹
Melt temperature (Tmin - Tmax)		°C	-	<small>d.a.m.</small> 260-280 <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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Typical Properties

Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

Flammability

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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