

Datasheet

Durethan BKV30H2.0EF 901510 DUS074

PA 6, 30% glass fibers, injection molding, heat-aging stabilized, improved flowability

ISO Shortname: ISO 16396-PA 6,GF30,GHR,S12-090

Property	Test Condition	Unit	Standard	guide value 1				
Rheological properties								
C Molding shrinkage, parallel	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.25				
C Molding shrinkage, transverse	60x60x2; 260 °C / MT 80 °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	8400	4800			
CTensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	160	85			
CTensile Strain at break	5 mm/min	%	ISO 527-1,-2	3	5.5			
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	65	80			
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	55	40			
C Charpy notched impact strength	23 °C	kJ/m²	ISO 179-1eA	10	18			
C Charpy notched impact strength	-30 °C	kJ/m²	ISO 179-1eA	<10	<10			
Izod impact strength	23 °C	kJ/m²	ISO 180-1U	60	70			
Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	50	50			
Izod notched impact strength	23 °C	kJ/m²	ISO 180-1A	10	18			
Izod notched impact strength	-30 °C	kJ/m²	ISO 180-1A	<10	<10			
Flexural modulus	2 mm/min	MPa	ISO 178-A	8200	4500			
Flexural strength	2 mm/min	MPa	ISO 178-A	230	135			
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.7	5.5			
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	230	110			
Thermal properties								
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	212				
CTemperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	195				
CTemperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	210				
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				
Other properties (23 °C)								
C Density		kg/m³	ISO 1183	1350				
Bulk density		kg/m³	ISO 60	600				
Processing conditions for test specimens								
C Injection molding-Melt temperature		°C	ISO 294	260				



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Property	Test Condition	Unit	Standard	guide value 1
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
Melt temperature (Tmin - Tmax)		°C	-	260-280
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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