

Datasheet Durethan BLUEBKV325ZH2.0 901510

PA 6, 25% glass fibers, blow molding, improved impact strength, heat-aging stabilized

ISO Shortname: ISO 16396-PA 6-I,GF25 (R),BHR,S14-070

Property	Test Condition	Unit	Standard	guide value ¹				
Rheological properties								
C Molding shrinkage, parallel	60x60x2; 280 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.7				
C Molding shrinkage, transverse	60x60x2; 280 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.7				
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1				
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1				
Mechanical properties (23 °C/50 % r. h.)								
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	8000	4000			
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	130	70			
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.2	8.5			
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	75	95			
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	85				
C Charpy notched impact strength	23 °C	kJ/m²	ISO 179-1eA	15	30			
C Charpy notched impact strength	-30 °C	kJ/m²	ISO 179-1eA	10				
Izod impact strength	23 °C	kJ/m²	ISO 180-1U	60	85			
Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	70	70			
Izod notched impact strength	23 °C	kJ/m²	ISO 180-1A	15	30			
Izod notched impact strength	-30 °C	kJ/m²	ISO 180-1A	10				
Flexural modulus	2 mm/min	MPa	ISO 178-A	6900	3600			
Flexural strength	2 mm/min	MPa	ISO 178-A	200	110			
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	4.4	6.8			
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	185	90			
C Puncture maximum force	23 °C	Ν	ISO 6603-2	1100				
C Puncture maximum force	-30 °C	Ν	ISO 6603-2	800				
C Puncture energy	23 °C	J	ISO 6603-2	5.8				
C Puncture energy	-30 °C	J	ISO 6603-2	3.2				
Thermal properties								
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	219				
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 Temperature of deflection under load	8.00 MPa	°C	ISO 75-1,-2	80				
	23 to 55 °C	10 ^{-₄} /K	ISO 11359-1,-2	0.3				
C Coefficient of linear thermal expansion, parallel								



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Property	Test Condition	Unit	Standard	guide value ¹
C Density		kg/m³	ISO 1183	1284
Bulk density		kg/m³	ISO 60	625
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
Melt temperature (Tmin - Tmax)		°C	-	270-290
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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