

Durethan BKV35H2.0 900116 SR1

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

ISO Shortname: ISO 16396-PA 6,GF35,GHR,S14-110

Property	Test Condition	Unit	Standard	guide value _{d.a.m.}	cond.
Rheological properties					
Molding shrinkage, parallel	150x105x3; 280 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.18	
Molding shrinkage, transverse	150x105x3; 280 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.78	
Post- shrinkage, parallel	150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.03	
Post- shrinkage, transverse	150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.11	
Mechanical properties (23 °C/50 % r. h.)					
CTensile modulus	1 mm/min	MPa	ISO 527-1,-2	10700	6800
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	5.0
C Tensile creep modulus	1 h	MPa	ISO 899-1		6000
C Tensile creep modulus	1000 h	MPa	ISO 899-1		4900
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	80	90
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	70	70
Flexural modulus	2 mm/min	MPa	ISO 178-A	9400	5900
Flexural strength	2 mm/min	MPa	ISO 178-A	300	180
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	4.0	5.0
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A		160
Thermal properties					
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	222	
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	205	'
CTemperature 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	0.8	
C Burning behavior UL 94	1.5 mm	Class	UL 94	НВ	
C Oxygen index	Method A	%	ISO 4589-2	23	'
Glow wire test (GWFI)		°C	IEC 60695-2-12	650	
Burning behavior US-FMVSS302	>=1.0 mm		ISO 3795	passed	,
Other properties (23 °C)					
C Water absorption (Saturation value)	Water at 23 °C	%	ISO 62	6.5	
C Water absorption (Equilibrium value)	23 °C; 50 % RH	%	ISO 62	1.9	'
C Density		kg/m³	ISO 1183	1410	
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					
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Drying temperature dry air dryer		°C	-	80	



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DATA SHEET



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Property	Test Condition	Unit	Standard	guide value d.a.m. cond.
Residual moisture content		%	Acc. to Karl Fischer	0.03-0.12
Melt temperature (Tmin - Tmax)		°C	-	270-290
Mold temperature	'	°C	-	80-120

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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Test values

Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the coloring.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.

Conditioning

Conditioning in accordance with ISO 1110 (70 °C; 62 % r.h.)

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