Data sheet



Durethan AKV50 000000

PA 66, 50% glass fibers, injection molding

ISO Shortname: ISO 16396-PA 66,GF50,GR,S14-160

Test Condition	Unit	Standard	guide value	
			d.a.m.	cond.
150x105x3; 300 °C / MT 80 °C; 4 bar	400 %	acc. ISO 2577	0.23	
150x105x3; 300 °C / MT 80 °C; 4 bar	400 %	acc. ISO 2577	1.25	
150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.02	
150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.03	
1 mm/min	MPa	ISO 527-1,-2	15700	10700
5 mm/min	MPa	· · · · · · · · · · · · · · · · · · ·	220	170
5 mm/min	%	· · · · · · · · · · · · · · · · · · ·	2.5	4.0
23 °C	kJ/m²	ISO 179-1eU	95	95
-30 °C	kJ/m²	ISO 179-1eU	100	100
				23
-30 °C		ISO 179-1eA	15	15
				18
				11
				10300
				250
				5.0
			0.0	235
2 11111/111111	N/mm²	ISO 2039-1	290	160
10 °C/min	°C	ISO 11357-1,-3	263	
1.80 MPa	°C	ISO 75-1,-2	~250	
0.45 MPa	°C	ISO 75-1,-2	~250	
50 N; 120 °C/h	°C	ISO 306	> 230	
Water at 23 °C	0/_	150.63	~1	
23 0, 30 % KH	**			
	Kg/III	130 00	700	
	°C	ISO 294	300	
	°C	ISO 294	80	
	°C	-	80	
	h	-	2-6	
	%	Acc. to Karl Fischer	0.03-0.12	
	°C	-	280-300	
	°C	-	80-120	
	150x105x3; 300 °C / MT 80 °C; 4 bar 150x105x3; 300 °C / MT 80 °C; 4 bar 150x105x3; 120 °C; 4 h 150x105x3; 120 °C; 4 h 1 mm/min 5 mm/min 5 mm/min 23 °C -30 °C 23 °C -30 °C 2 mm/min 2 mm/min 2 mm/min 2 mm/min 2 mm/min 2 mm/min 1 mm/min 1 mm/min 5 mm/min 1 mm/min 1 mm/min 1 mm/min 1 mm/min 1 mm/min 2 mm/min 2 mm/min 2 mm/min 2 mm/min 2 mm/min 1 mm/min 1 mm/min 1 mm/min	150x105x3; 300 °C / MT 80 °C; 400 % bar 150x105x3; 300 °C / MT 80 °C; 400 % bar 150x105x3; 120 °C; 4 h	150x105x3; 300 °C / MT 80 °C; 400 % bar 150x105x3; 300 °C / MT 80 °C; 400 % bar 150x105x3; 300 °C / MT 80 °C; 400 % bar 150x105x3; 120 °C; 4 h	150x105x3; 300 °C / MT 80 °C; 400 % acc. ISO 2577 0.23

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 $^{\circ}\text{C};$ 62 % r.h.)

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