

Durethan AKV30XTS3 901510

PA 66, 30 % glass fibers, injection molding, heat-aging stabilized, high temperature stabilized

ISO Shortname: ISO 16396-PA 66,GF30,GHR,S14-100

Property	Test Condition	Unit	Standard	guide value	
				d.a.m.	cond.
Rheological properties					
C Molding shrinkage, parallel	60x60x2; 290 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.35	
C Molding shrinkage, transverse	60x60x2; 290 °C / MT 80 °C; 500 bar	%	ISO 294-4	1.0	
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	10000	6000
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	175	110
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3	5
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	65	80
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	55	50
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	10	15
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	60	75
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	55	55
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	10	15
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	<10	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	9000	6000
Flexural strength	2 mm/min	MPa	ISO 178-A	275	175
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.7	5.0
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	270	155
Thermal properties					
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	262	
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	235	
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.25	
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.95	
Electrical properties (23 °C/50 % r. h.)					
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	625	
Other properties (23 °C)					
C Density		kg/m ³	ISO 1183	1360	
Processing conditions for test specimens					
C Injection molding-Melt temperature		°C	ISO 294	290	
C Injection molding-Mold temperature		°C	ISO 294	80	
Processing recommendations					
Drying temperature dry air dryer		°C	-	80	



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Property	Test Condition	Unit	Standard	guide value d.a.m. cond.
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
admissible residence time at Tmax		min	-	<5
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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