

Datasheet

Durethan AKV320ZXTS2 900116

PA 66, 20% glass fibers, blow molding, high temperature stabilized, improved impact strength

ISO Shortname: ISO 16396-PA 66, GF20, BHR, S14-070

Property	Test Condition	Unit	Standard	guide value 1 d.a.m. cond.	
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	6600	3500
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	125	80
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	4.5	16
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	90	115
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	90	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	<10
Izod impact strength	23 °C	kJ/m²	ISO 180-1U	75	100
Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	75	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	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	5600	3000
Flexural strength	2 mm/min	MPa	ISO 178-A	200	110
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	6	7
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	175	80
Thermal properties					
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	256	
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	206	
Other properties (23 °C)					
C Density		kg/m³	ISO 1183	1244	
Bulk density		kg/m³	ISO 60	645	
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	
Drying time dry air dryer		h	-	2-6	
Residual moisture content		%	Acc. to Karl Fischer	0.00-0.06	
Melt temperature (Tmin - Tmax)		°C	-	280-300	
Mold temperature		°C	-	80-120	

Notes



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- 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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Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

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Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

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Edition 20.12.2023