

Durethan® AKV30GITH2.0

PA66–GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized, Excellent Surface Properties

Print Date: 2024–08–24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	9200 / 6600	MPa	ISO 527–1/–2
Stress at break	190 / 120	MPa	ISO 527–1/–2
Strain at break	4 / 6	%	ISO 527–1/–2
Flexural modulus	8500 / 6000	MPa	ISO 178
Flexural strength	280 / 180	MPa	ISO 178
Charpy impact strength (+23°C)	70 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	60 / 60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 15	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10 / <10	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	10 / 15	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	260 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	230 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	250 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.8 / *	E–4/°C	ISO 11359–1/–2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
Oxygen index	25 / *	%	ISO 4589–1/–2
Glow Wire Flammability Index GWFI	650 / –	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	2 / –	mm	IEC 60695–2–12

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES			
<i>DRY / COND</i>			
Relative permittivity (100Hz)	4 / 8	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.8 / 4.2	–	IEC 62631-2-1
Dissipation factor (100 Hz)	80 / 2100	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	160 / 700	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	45 / 40	kV/mm	IEC 60243-1
Comparative tracking index	475 / –	V	IEC 60112
OTHER PROPERTIES			
<i>DRY / COND</i>			
Water absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1370 / –	kg/m ³	ISO 1183
PROCESSING RECOMMENDATIONS			
<i>VALUE</i>			
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2-6	h	
Residual moisture content	0.03-0.12	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	280-300	°C	
Mold temperature	80-120	°C	

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