Akulon®

Akulon® K224-G6

PA6-GF30

30% Glass Reinforced

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.3/*	%	ISO 294-4
Molding shrinkage (normal)	0.9/*	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	9500/6000	MPa	ISO 527-1/-2
Stress at break	180/110	MPa	ISO 527-1/-2
Strain at break	3.5/7	%	ISO 527-1/-2
Flexural modulus	8600/-	MPa	ISO 178
Flexural strength	235/-	MPa	ISO 178
Charpy impact strength (+23°C)	90/110	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	75/75	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12/25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	11/11	kJ/m²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	220/*	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200/*	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220/*	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2/*	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7/*	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

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Properties	Typical Data	Unit	Test Method
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.75/*	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	700/-	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2/-	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	700/-	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5/-	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	725/-	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	2/-	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	725/-	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	1.5/-	mm	IEC 60695-2-13

Electrical properties

	dry / cond		
Relative permittivity (100Hz)	3.5/20	-	IEC 60250
Relative permittivity (1 MHz)	3.3/5	-	IEC 60250
Dissipation factor (100 Hz)	50/3000	E-4	IEC 60250
Dissipation factor (1 MHz)	150/1200	E-4	IEC 60250
Volume resistivity	1E13/1E11	Ohm*m	IEC 60093
Surface resistivity	*/1E14	Ohm	IEC 60093
Electric strength	30/25	kV/mm	IEC 60243-1
Comparative tracking index	*/600	-	IEC 60112

Other properties

	dry / cond		
Water absorption	6.3/*	%	Sim. to ISO 62
Humidity absorption	1.9/*	%	Sim. to ISO 62
Density	1350/-	kg/m³	ISO 1183

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