Akulon®

Akulon® K224-PG3

PA6-I-GF15

15% Glass Reinforced, Impact Modified

Print Date: 2016-09-28

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage [parallel]	0.4/*	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1/*	%	Sim. to ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	5400/2600	MPa	ISO 527-1/-2
Stress at break	105/60	MPa	ISO 527-1/-2
Strain at break	4/15	%	ISO 527-1/-2
Charpy impact strength (+23°C)	70/90	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	70/70	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	16/25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	9/9	kJ/m²	ISO 179/1eA
Thermal properties	dry / cond		
Temp. of deflection under load (1.80 MPa)	185/*	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	205/*	°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	1.6/*	mm	IEC 60695-11-10
Electrical properties	dry / cond		
Relative permittivity (100Hz)	3.6/14	-	IEC 60250
Relative permittivity (1 MHz)	3.3/4.5	-	IEC 60250

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Dissipation factor (100 Hz)	100/1500	E-4	IEC 60250
Dissipation factor (1 MHz)	180/1200	E-4	IEC 60250
Volume resistivity	>1E13/>1E13	Ohm*m	IEC 60093
Surface resistivity	*/>1E15	Ohm	IEC 60093
Electric strength	25/20	kV/mm	IEC 60243-1
Comparative tracking index	*/500	V	IEC 60112
Other properties	dry / cond		
Water absorption	6.8/*	%	Sim. to ISO 62
Humidity absorption	2/*	%	Sim. to ISO 62
Density	1200/-	kg/m³	ISO 1183