

Akulon® Ultraflow K-FG6

PA6-GF30

30% Glass Reinforced, High Flow

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Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.18/*	%	ISO 294-4
Molding shrinkage (normal)	0.86/*	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	9350/5700	MPa	ISO 527-1/-2
Stress at break	160/105	MPa	ISO 527-1/-2
Strain at break	3/7	%	ISO 527-1/-2
Flexural modulus	8500/-	MPa	ISO 178
Flexural strength	235/-	MPa	ISO 178
Charpy impact strength (+23°C)	85/90	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	65/65	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14/22	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10/10	kJ/m ²	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	1.6/*	mm	IEC 60695-11-10

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Properties	Typical Data	Unit	Test Method
Electrical properties			
	dry / cond		
Relative permittivity (100Hz)	3.5/14	-	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
Comparative tracking index	*/600	-	IEC 60112
Other properties			
	dry / cond		
Water absorption	6/*	%	Sim. to ISO 62
Humidity absorption	1.8/*	%	Sim. to ISO 62
Density	1350/-	kg/m ³	ISO 1183

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