Akulon[®] Ultraflow

Akulon[®] Ultraflow K-FG0 PA6-GF50

50% Glass Reinforced, High Flow

Print Date: 2016-04-01

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.2/*	%	ISO 294-4
Molding shrinkage (normal)	0.9/*	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	16500/11000	MPa	ISO 527-1/-2
Stress at break	220/155	MPa	ISO 527-1/-2
Strain at break	2.5/5	%	ISO 527-1/-2
Flexural modulus	15500/-	MPa	ISO 178
Flexural strength	335/-	MPa	ISO 178
Charpy impact strength (+23°C)	90/100	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	85/85	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15/25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12/12	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)	210/*	°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)	0.1/*	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.5/*	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)	5.2/4.5	-	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	4.5/*	%	Sim. to ISO 62
Humidity absorption	1.4/*	%	Sim. to ISO 62
Density	1560/-	kg/m³	ISO 1183

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