Akulon® Ultraflow K-FHGM24

PA6-(GF+MD)30

10% Glass Reinforced, 20% Mineral Reinforced, Heat Stabilized, High Flow

Print Date: 2019-10-18

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294-4
Molding shrinkage (normal)	0.93 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	7500 / 3500	MPa	ISO 527-1/-2
Stress at break	97 / 55	MPa	ISO 527-1/-2
Strain at break	2.3 / 5	%	ISO 527-1/-2
Flexural modulus	6500 / -	MPa	ISO 178
Flexural strength	165 / -	MPa	ISO 178
Charpy impact strength (+23°C)	35 / 45	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	30 / 30	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 6	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / 4	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)	180 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	210 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.35 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6 / *	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

Property Data

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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 / 4.5	-	IEC 60250
Dissipation factor (100 Hz)	50 / 3200	E-4	IEC 60250
Dissipation factor (1 MHz)	140 / 1200	E-4	IEC 60250
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 60093
Surface resistivity	- / 1E13	Ohm	IEC 60093
Comparative tracking index	500 / -	V	IEC 60112
Other properties	dry / cond		
Water absorption	6.5 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1370 / -	kg/m³	ISO 1183