

Akulon[®] Ultraflow K—FG3/C

PA6—GF15

15% Glass Reinforced, High Flow

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		DRY / COND	
Molding shrinkage (parallel)	0.31 / *	%	ISO 294-4
Molding shrinkage (normal)	0.93 / *	%	ISO 294-4
MECHANICAL PROPERTIES		DRY / COND	
Tensile modulus	5700 / 3400	MPa	ISO 527-1/-2
Stress at break	115 / 65	MPa	ISO 527-1/-2
Strain at break	3.4 / 8.5	%	ISO 527-1/-2
Flexural modulus	4500 / —	MPa	ISO 178
Flexural strength	160 / —	MPa	ISO 178
Charpy impact strength (+23°C)	25 / 35	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	20 / 20	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6.3 / 15	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	5 / 5	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)	195 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°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
ELECTRICAL PROPERTIES		DRY / COND	
Relative permittivity (100Hz)	3.5 / 14	—	IEC 62631-2-1

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Relative permittivity (1 MHz)	4.7 / 4.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	55 / 1500	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	180 / 1200	E–4	IEC 62631–2–1
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 1E14	Ohm	IEC 62631–3–2
Comparative tracking index	* / 600	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Water absorption	7.6 / *	%	Sim. to ISO 62
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1230 / –	kg/m³	ISO 1183

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