

Akulon[®] Ultraflow K–FG0

PA6–GF50

50% Glass Reinforced, High Flow

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/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	85 / 85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 25	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	12 / 12	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)	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
ELECTRICAL PROPERTIES			
	DRY / COND		
Relative permittivity (100Hz)	3.5 / 14	–	IEC 62631–2–1

Property Data

Akulon® Ultraflow K–FG0

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Relative permittivity (1 MHz)	5.2 / 4.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	50 / 3000	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	150 / 1200	E–4	IEC 62631–2–1
Volume resistivity	1E13 / 1E11	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	4.5 / *	%	Sim. to ISO 62
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1560 / –	kg/m³	ISO 1183