

Akulon[®] Ultraflow K–FPG8

PA6–I–GF40

Glass Reinforced, High Flow

Print Date: 2024–09–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.36 / *	%	ISO 294–4
Molding shrinkage (normal)	0.89 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	11500 / 7300	MPa	ISO 527–1/–2
Stress at break	175 / 110	MPa	ISO 527–1/–2
Strain at break	3.5 / 7	%	ISO 527–1/–2
Charpy impact strength (+23°C)	90 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	90 / 95	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 30	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	13 / 13	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)	215 / *	°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)	0.65 / *	E–4/°C	ISO 11359–1/–2
ELECTRICAL PROPERTIES			
	DRY / COND		
Relative permittivity (100Hz)	3.5 / 14	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.3 / 4.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	90 / 3000	E–4	IEC 62631–2–1

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
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
Electric strength	25 / 20	kV/mm	IEC 60243–1
Comparative tracking index	– / 600	V	IEC 60112
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
Water absorption	5.7 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1410 / –	kg/m ³	ISO 1183

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