

# Akulon<sup>®</sup> Ultraflow K—FPG8

## PA6—I—GF40

Impact Modified, 40% Glass Reinforced, High Flow

Print Date: 2025-02-01

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.36 / *	%	ISO 294-4
Molding shrinkage (normal)	0.89 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>	<b>DRY / COND</b>		
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 <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	90 / 95	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 30	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	13 / 13	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>	<b>DRY / COND</b>		
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
<b>ELECTRICAL PROPERTIES</b>	<b>DRY / COND</b>		
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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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
OTHER PROPERTIES	DRY / COND		
Water absorption	5.7 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1410 / –	kg/m³	ISO 1183

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