

# Akulon<sup>®</sup> N24–G8

## PA6–GF40

40% Glass Fiber Reinforced

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>MECHANICAL PROPERTIES</b>		<b>DRY / COND</b>	
Tensile modulus	12500 / –	MPa	ISO 527–1/–2
Stress at break	190 / –	MPa	ISO 527–1/–2
Strain at break	2.8 / –	%	ISO 527–1/–2
Charpy impact strength (+23°C)	80 / –	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / –	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)	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)	0.2 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.5 / *	E–4/°C	ISO 11359–1/–2
<b>ELECTRICAL PROPERTIES</b>		<b>DRY / COND</b>	
Relative permittivity (100Hz)	3.5 / –	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.3 / –	–	IEC 62631–2–1
Dissipation factor (100 Hz)	50 / –	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	150 / –	E–4	IEC 62631–2–1
Volume resistivity	>1E13 / –	Ohm*m	IEC 62631–3–1
Comparative tracking index	500 / –	V	IEC 60112
<b>OTHER PROPERTIES</b>		<b>DRY / COND</b>	
Water absorption	5.5 / *	%	Sim. to ISO 62

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1450 / –	kg/m³	ISO 1183

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