

Akulon® N24-G8

PA6-GF40

40% Glass Reinforced

Properties	Typical Data	Unit	Test Method
Mechanical properties			
	dry / cond		
Tensile modulus	12000 / -	MPa	ISO 527-1/-2
Stress at break	200 / -	MPa	ISO 527-1/-2
Strain at break	2.5 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	80 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14 / -	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)	0.2 / *	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 / -	-	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
Other properties			
	dry / cond		
Water absorption	5.5 / *	%	Sim. to ISO 62



Property Data

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Properties	Typical Data	Unit	Test Method
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1450 / -	kg/m ³	ISO 1183

