

Akulon[®] S223–HG0

PA66–GF50

50% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294–4
Molding shrinkage (normal)	1.2 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	16000 / 11500	MPa	ISO 527–1/–2
Stress at break	235 / 165	MPa	ISO 527–1/–2
Strain at break	2.7 / 3.9	%	ISO 527–1/–2
Flexural modulus	15500 / 11500	MPa	ISO 178
Flexural strength	355 / 275	MPa	ISO 178
Tensile modulus (200°C)	5200	MPa	ISO 527–1/–2
Stress at break (200°C)	75	MPa	ISO 527–1/–2
Strain at break (200°C)	5.9	%	ISO 527–1/–2
Charpy impact strength (+23°C)	95 / 95	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	100 / 100	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	16 / 21	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	14 / 14	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / 20	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	260 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	253 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	260 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E–4/°C	ISO 11359–1/–2

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Coeff. of linear therm. expansion (normal)	0.6 / *	E–4/°C	ISO 11359–1/–2
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	4.5 / 14	–	IEC 62631–2–1
Relative permittivity (1 MHz)	4 / 5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	90 / 3200	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	150 / 850	E–4	IEC 62631–2–1
Volume resistivity	1E13 / 1E12	Ohm*m	IEC 62631–3–1
Surface resistivity	* / 1E12	Ohm	IEC 62631–3–2
Electric strength	40 / 35	kV/mm	IEC 60243–1
OTHER PROPERTIES	DRY / COND		
Water absorption	4 / *	%	Sim. to ISO 62
Humidity absorption	1.2 / *	%	Sim. to ISO 62
Density	1570 / –	kg/m³	ISO 1183

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