

Akulon[®] S223-HG3

PA66-GF15

15% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	1/*	%	ISO 294-4
Molding shrinkage (normal)	1.5 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	6200 / 4000	MPa	ISO 527-1/-2
Stress at break	125 / 80	MPa	ISO 527-1/-2
Strain at break	3/6	%	ISO 527-1/-2
Flexural modulus	5500 / 3200	MPa	ISO 178
Flexural strength	205 / 110	MPa	ISO 178
Tensile modulus (200°C)	1750	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	40 / 50	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	35 / 40	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6/8	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	5/4	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	5/7	kJ/m²	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)	240 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	250 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.4 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10

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Property Data (Provisional)

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3/*	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	4/9	_	IEC 62631-2-1
Relative permittivity (1 MHz)	4/4	_	IEC 62631-2-1
Dissipation factor (100 Hz)	80 / 1300	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	150 / 700	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	-/1E12	Ohm	IEC 62631-3-2
Electric strength	35 / 30	kV/mm	IEC 60243-1
Comparative tracking index	450 / –	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1240 / *	kg/m³	ISO 1183

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