

Akulon[®] S223–HG3

PA66–GF15

15% Glass Reinforced, Heat Stabilized

Print Date: 2024–03–27

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	6500 / 4000	MPa	ISO 527–1/–2
Stress at break	115 / 80	MPa	ISO 527–1/–2
Strain at break	3 / 6	%	ISO 527–1/–2
Flexural modulus	5100 / –	MPa	ISO 178
Flexural strength	175 / –	MPa	ISO 178
Charpy notched impact strength (+23°C)	5 / 8	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	3.5 / 3.5	kJ/m²	ISO 179/1eA
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)	255 / *	°C	ISO 75–1/–2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695–11–10
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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
OTHER PROPERTIES	DRY / COND		
Water absorption	7.8 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1250 / *	kg/m³	ISO 1183

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