

Akulon[®] S223–KG6

PA66–GF30

Heat Stabilized, 30% Glass Fiber Reinforced

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294–4
Molding shrinkage (normal)	1 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	10000 / 6500	MPa	ISO 527–1/–2
Stress at break	200 / 125	MPa	ISO 527–1/–2
Strain at break	3.6 / 6	%	ISO 527–1/–2
Flexural modulus	9200 / 6200	MPa	ISO 178
Flexural strength	290 / 200	MPa	ISO 178
Tensile modulus (200°C)	3350	MPa	ISO 527–1/–2
Stress at break (200°C)	70	MPa	ISO 527–1/–2
Strain at break (200°C)	9.3	%	ISO 527–1/–2
Charpy impact strength (+23°C)	90 / 90	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	65 / 68	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	10 / 10	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	10 / 15	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)	250 / *	°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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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (normal)	0.7 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES	DRY / COND		
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1360 / –	kg/m³	ISO 1183

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