

Akulon® S223-HGo

PA66-GF50

50% Glass Reinforced, Heat Stabilized

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	240 / 170	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	350 / 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)	90 / 94	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	97 / 101	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
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
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-2



Property Data

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Properties	Typical Data	Unit	Test Method
Other properties	dry / cond		
Water absorption	4.2 / *	%	Sim. to ISO 62
Humidity absorption	1.2 / *	%	Sim. to ISO 62
Density	1570 / -	kg/m ³	ISO 1183

