

Akulon® S223-G7

PA66-GF35

Print Date: 2019-03-22

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage [parallel]	0.2 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1 / *	%	Sim. to ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	11500 / 7550	MPa	ISO 527-1/-2
Stress at break	211 / 140	MPa	ISO 527-1/-2
Strain at break	3.5 / 5.8	%	ISO 527-1/-2
Flexural modulus	9400 / -	MPa	ISO 178
Flexural strength	270 / -	MPa	ISO 178
Charpy impact strength (+23°C)	89 / 95	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	75 / 74	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14 / 18	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / 11	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)	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
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-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 thickness h	HB / *	class	IEC 60695-11-10

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Properties	Typical Data	Unit	Test Method
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Other properties			
	dry / cond		
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1410 / -	kg/m ³	ISO 1183