

Akulon® S223-HG3

PA66-GF15

15% Glass Reinforced, Heat Stabilized

Print Date: 2018-12-13

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/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3.5 / 3.5	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)	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	1.6 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.71 / *	mm	IEC 60695-11-10
Other properties			
	dry / cond		
Water absorption	7.8 / *	%	Sim. to ISO 62

Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1250 / *	kg/m ³	ISO 1183