

Akulon[®] S223–G7

PA66–GF35

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>RHEOLOGICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Molding shrinkage [parallel]	0.2 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1 / *	%	Sim. to ISO 294–4
<i>MECHANICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Tensile modulus	11500 / 7550	MPa	ISO 527–1/–2
Stress at break	210 / 140	MPa	ISO 527–1/–2
Strain at break	3.5 / 5.8	%	ISO 527–1/–2
Flexural modulus	11000 / 7500	MPa	ISO 178
Flexural strength	310 / 210	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 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)	12.8 / 18	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	10 / 11	kJ/m ²	ISO 179/1eA
<i>THERMAL PROPERTIES</i>			
	<i>DRY / COND</i>		
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
<i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Water absorption	5.5 / *	%	Sim. to ISO 62

Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1410 / –	kg/m ³	ISO 1183