

**Akulon® S223-G6**

PA66-GF30

DSM Engineering Plastics

**Product Texts**

30% Glass Reinforced

ISO 1043 PA66-GF30

[Akulon website](#)

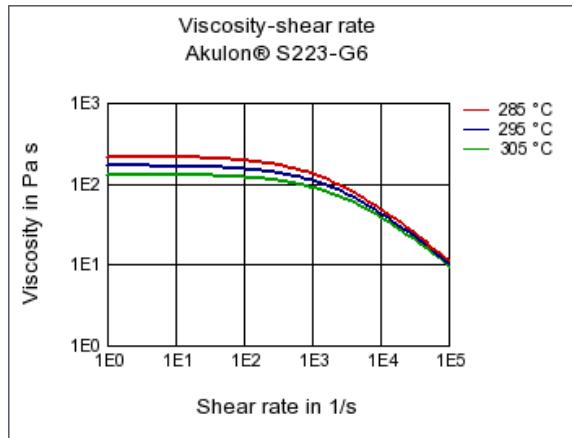
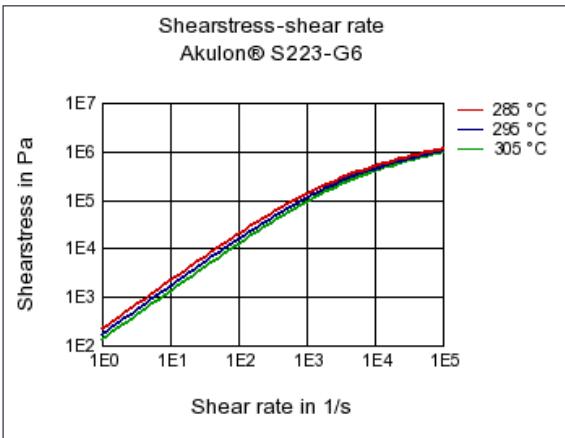
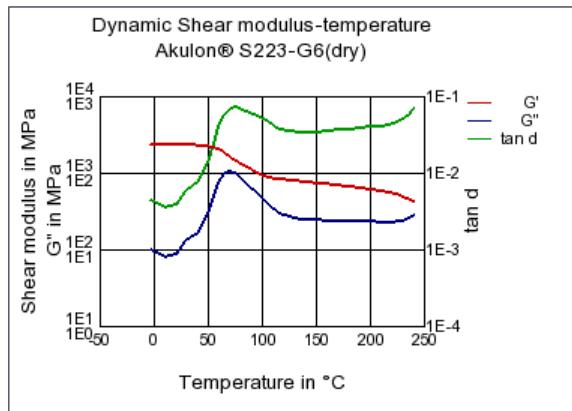
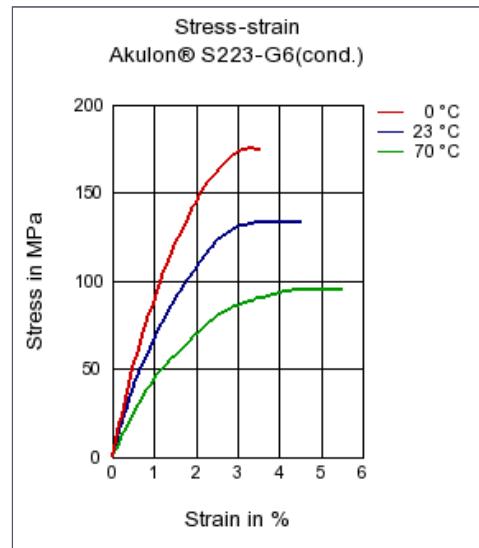
<b>Rheological properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
	Tensile Modulus	9500 / 7500	MPa
	Stress at break	190 / 140	MPa
	Strain at break	3 / 5	%
	Charpy impact strength (+23°C)	80 / 100	kJ/m <sup>2</sup>
	Charpy impact strength, -30°C	70 / 70	kJ/m <sup>2</sup>
	Charpy notched impact strength (+23°C)	12 / 20	kJ/m <sup>2</sup>
	Charpy notched impact strength, -30°C	10 / 10	kJ/m <sup>2</sup>
<b>Thermal properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
	Melting temperature (10°C/min)	260 / *	°C
	Temp. of deflection under load (1.80 MPa)	245 / *	°C
	Temp. of deflection under load (0.45 MPa)	260 / *	°C
	Coeff. of linear therm. expansion, parallel	20 / *	E-6/K
	Coeff. of linear therm. expansion, normal	70 / *	E-6/K
	Burning behav. at 1.5 mm nom. thickn.	HB / *	class
	Thickness tested	1.5 / *	mm
	UL recognition	UL / *	-
	Burning behav. at thickness h	HB / *	class
<b>Electrical properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
	Relative permittivity, 100Hz	3.8 / 11	-
	Relative permittivity, 1MHz	3.5 / 4.6	-
	Dissipation factor, 100Hz	90 / 1400	E-4
	Dissipation factor, 1MHz	160 / 1000	E-4
	Volume resistivity	1E13 / 1E11	Ohm*m
	Surface resistivity	* / 1E14	Ohm
	Electric strength	30 / 25	kV/mm
	Comparative tracking index	600 / 600	-
<b>Other properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
	Water absorption	6 / *	%
	Humidity absorption	1.6 / *	%
	Density	1360 / -	kg/m <sup>3</sup>

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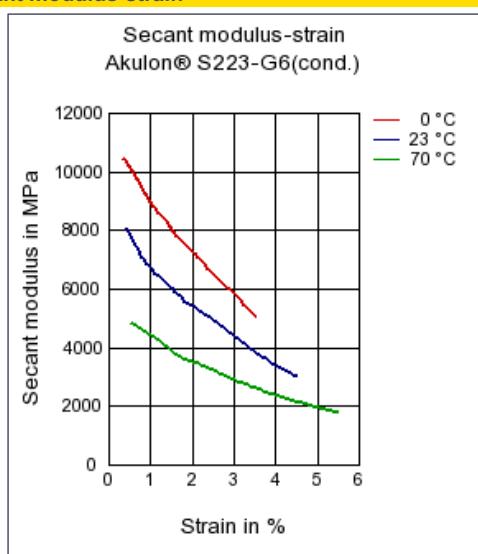
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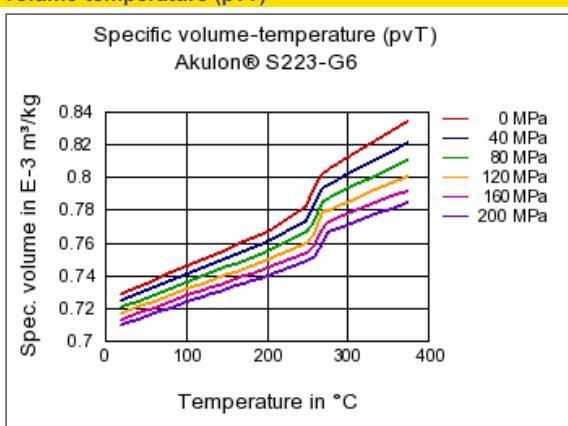
Rheological calculation properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Thermal conductivity of melt	0.172	W/(m K)	-
Spec. heat capacity of melt	2170	J/(kg K)	-

**Diagrams****Viscosity-shear rate****Shearstress-shear rate****Dynamic Shear modulus-temperature****Stress-strain**

## Secant modulus-strain



## Specific volume-temperature (pvT)



## Characteristics

## Processing

Injection Molding

## Additives

Release agent

## Delivery form

Pellets

## Other text information

## Injection Molding

[Injection Molding Recommendations](#)