

Akulon® S223-HPG5

PA66-I-GF25

DSM Engineering Plastics

Product Texts

25% Glass Reinforced, Impact Modified, Heat Stabilized, Resistant to Oil and Grease

ISO 1043 PA66-I-GF25

[Akulon website](#)

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	7500 / 6000	MPa	ISO 527-1/-2
Stress at break	150 / 110	MPa	ISO 527-1/-2
Strain at break	4 / 5.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	95 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	50 / 50	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 17	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9 / 9	kJ/m ²	ISO 179/1eA

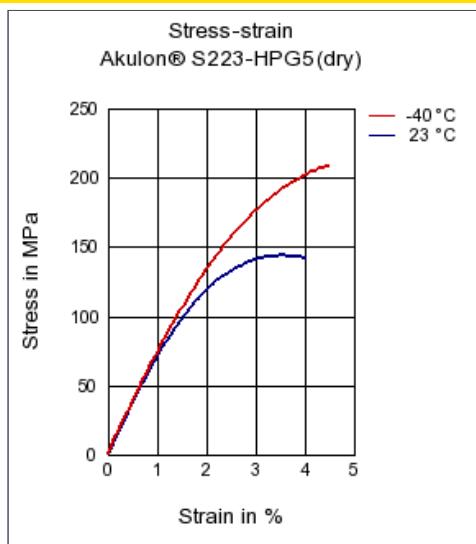
Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	245 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	260 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.7 / 11	-	IEC 60250
Relative permittivity, 1MHz	3.3 / 4.6	-	IEC 60250
Dissipation factor, 100Hz	110 / 1400	E-4	IEC 60250
Dissipation factor, 1MHz	180 / 1000	E-4	IEC 60250
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E13	Ohm	IEC 60093
Electric strength	35 / 30	kV/mm	IEC 60243-1
Comparative tracking index	500 / 500	-	IEC 60112

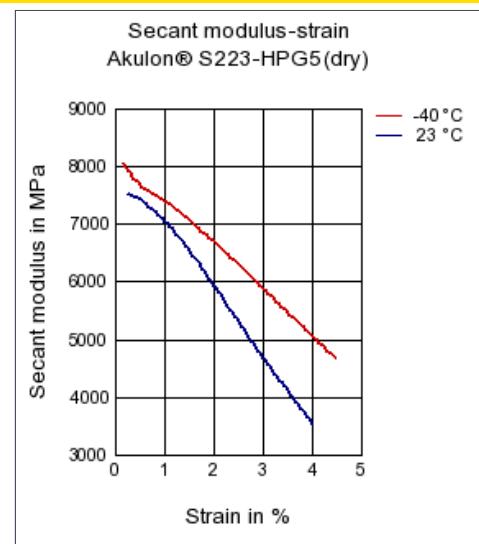
Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1290 / -	kg/m ³	ISO 1183

Diagrams

Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Other text information

Injection Molding

[Injection Molding Recommendations](#)