

Akulon® K224-G3

PA6-GF15

DSM Engineering Plastics

Product Texts

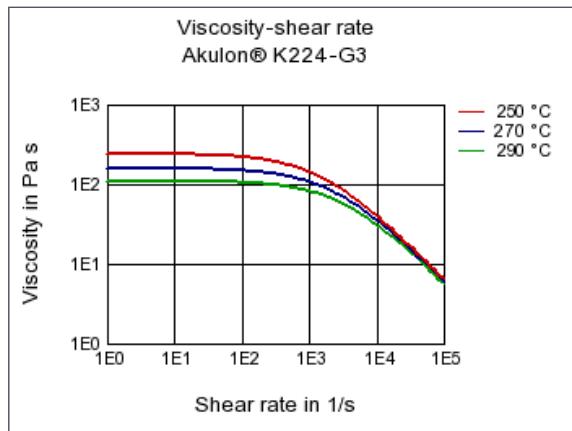
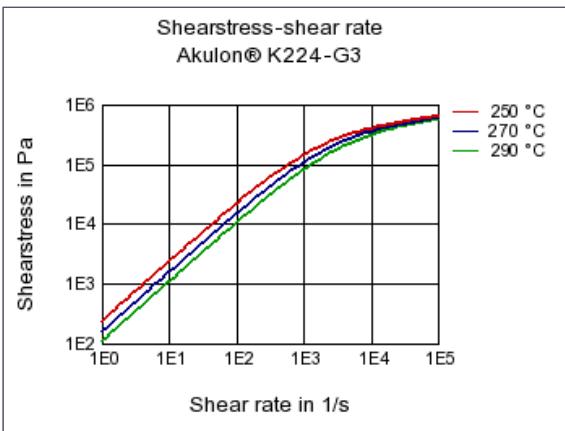
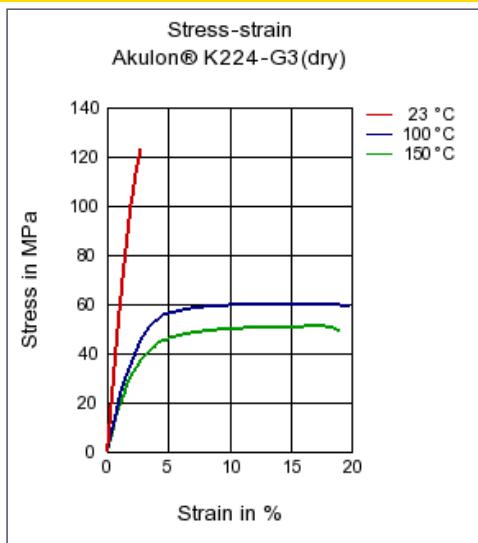
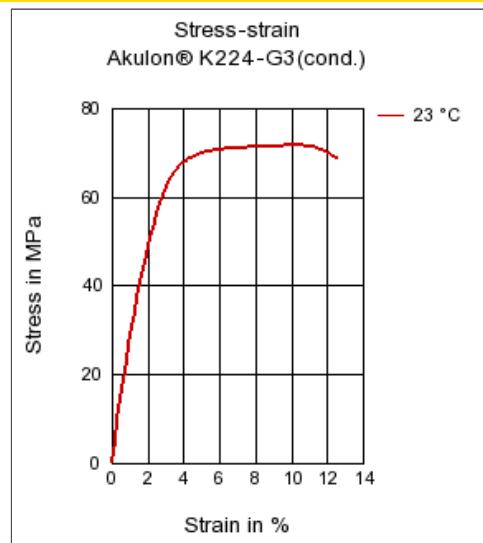
15% Glass Reinforced

ISO 1043 PA6-GF15

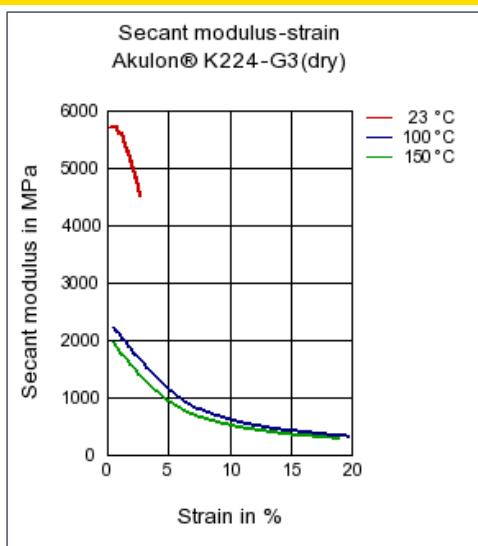
[Akulon website](#)

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data	dry / cond	Unit	Test Standard
	Tensile Modulus	6000 / 3500	MPa
	Stress at break	125 / 70	MPa
	Strain at break	3 / 12	%
	Charpy impact strength (+23°C)	45 / 80	kJ/m ²
	Charpy impact strength, -30°C	40 / 40	kJ/m ²
	Charpy notched impact strength (+23°C)	7 / 15	kJ/m ²
	Charpy notched impact strength, -30°C	6 / 6	kJ/m ²
Thermal properties			
ISO Data	dry / cond	Unit	Test Standard
	Melting temperature (10°C/min)	220 / *	°C
	Temp. of deflection under load (1.80 MPa)	195 / *	°C
	Temp. of deflection under load (0.45 MPa)	215 / *	°C
	Coeff. of linear therm. expansion, parallel	30 / *	E-6/K
	Coeff. of linear therm. expansion, normal	80 / *	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
	Thickness tested	0.8 / *	mm
	UL recognition	UL / *	-
Electrical properties			
ISO Data	dry / cond	Unit	Test Standard
	Relative permittivity, 100Hz	3.5 / 14	-
	Relative permittivity, 1MHz	4.7 / 4.5	-
	Dissipation factor, 100Hz	55 / 1500	E-4
	Dissipation factor, 1MHz	180 / 1200	E-4
	Volume resistivity	1E13 / 1E13	Ohm*m
	Surface resistivity	* / 1E14	Ohm
	Electric strength	35 / 25	kV/mm
	Comparative tracking index	- / 600	-
Other properties			
ISO Data	dry / cond	Unit	Test Standard
	Water absorption	7.6 / *	%
	Humidity absorption	2.3 / *	%
	Density	1230 / -	kg/m ³

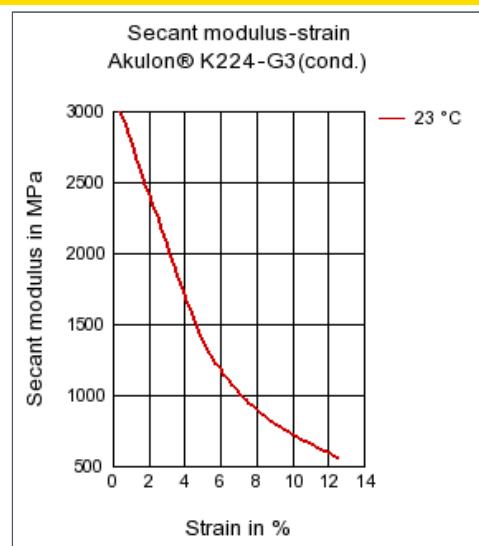
Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	1030	kg/m ³	-
Thermal conductivity of melt	0.26	W/(m K)	-
Spec. heat capacity of melt	2400	J/(kg K)	-
Eff. thermal diffusivity	1.03E-7	m ² /s	-

Diagrams**Viscosity-shear rate****Shearstress-shear rate****Stress-strain****Stress-strain**

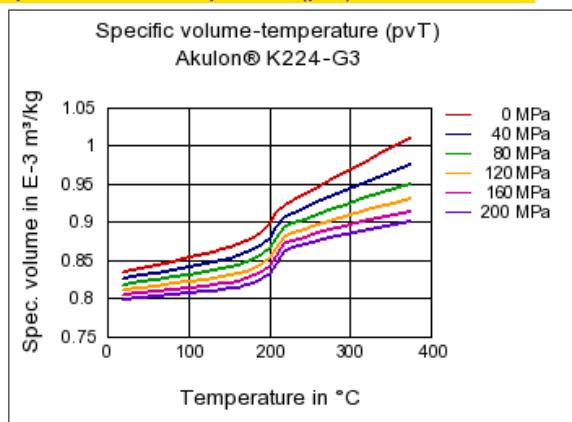
Secant modulus-strain



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](#)