

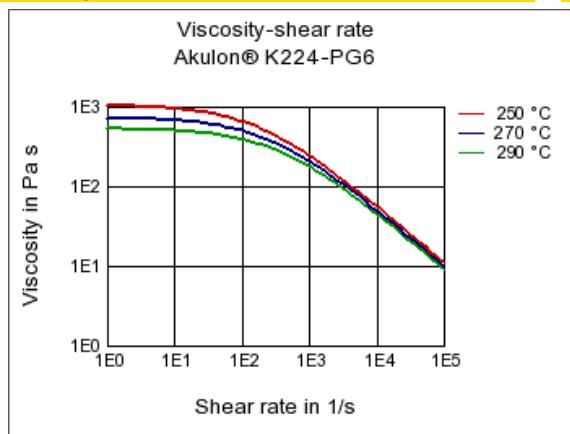
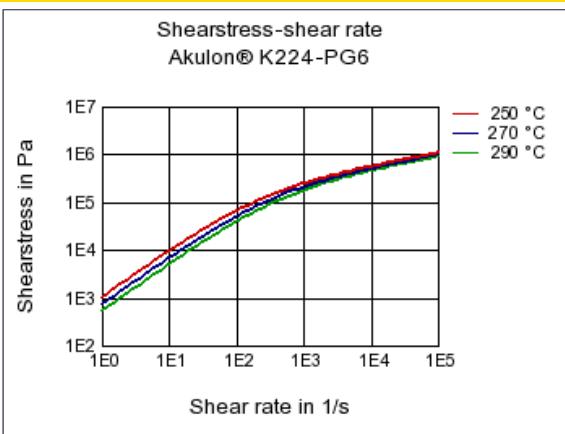
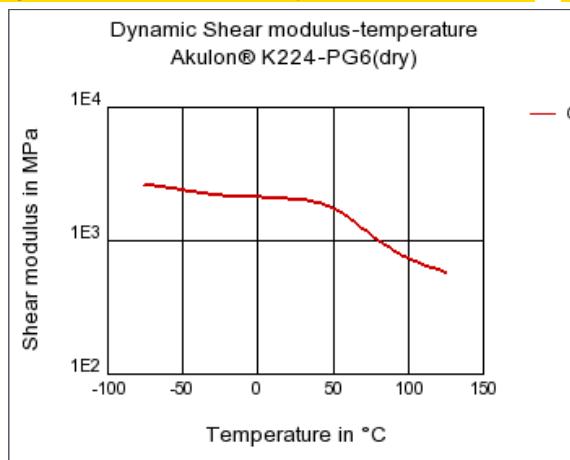
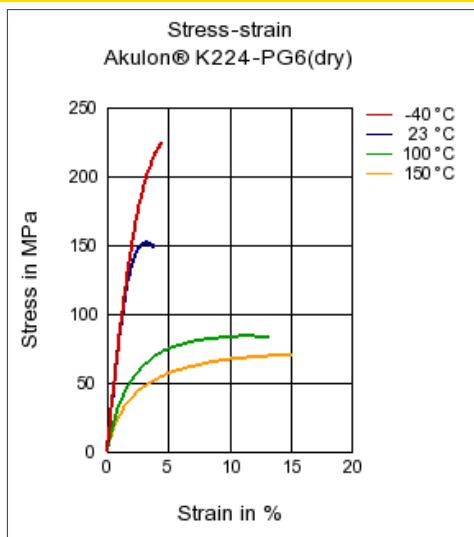
Akulon® K224-PG6						
PA6-I-GF30	DSM Engineering Plastics					
Product Texts						
30% Glass Reinforced, Impact Modified						
ISO 1043 PA6-I-GF30						
Akulon website						
Rheological properties	dry / cond	Unit	Test Standard			
ISO Data						
Melt volume-flow rate, MVR	20 / *	cm ³ /10min	ISO 1133			
Temperature	275 / *	°C	ISO 1133			
Load	5 / *	kg	ISO 1133			
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577			
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577			
Mechanical properties	dry / cond	Unit	Test Standard			
ISO Data						
Tensile Modulus	8500 / 5500	MPa	ISO 527-1/-2			
Stress at break	145 / 100	MPa	ISO 527-1/-2			
Strain at break	4.5 / 9	%	ISO 527-1/-2			
Charpy impact strength (+23°C)	95 / 110	kJ/m ²	ISO 179/1eU			
Charpy impact strength, -30°C	100 / 100	kJ/m ²	ISO 179/1eU			
Charpy notched impact strength (+23°C)	23 / 43	kJ/m ²	ISO 179/1eA			
Charpy notched impact strength, -30°C	15 / 15	kJ/m ²	ISO 179/1eA			
Thermal properties	dry / cond	Unit	Test Standard			
ISO Data						
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75-1/-2			
Temp. of deflection under load (0.45 MPa)	215 / *	°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	90 / *	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			
Electrical properties	dry / cond	Unit	Test Standard			
ISO Data						
Relative permittivity, 100Hz	3.8 / 14	-	IEC 60250			
Relative permittivity, 1MHz	3.5 / 4.5	-	IEC 60250			
Dissipation factor, 100Hz	90 / 3000	E-4	IEC 60250			
Dissipation factor, 1MHz	150 / 1200	E-4	IEC 60250			
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 60093			
Surface resistivity	* / 1E14	Ohm	IEC 60093			
Electric strength	25 / 20	kV/mm	IEC 60243-1			
Comparative tracking index	- / 600	-	IEC 60112			
Other properties	dry / cond	Unit	Test Standard			
ISO Data						
Water absorption	5.7 / *	%	Sim. to ISO 62			
Humidity absorption	1.7 / *	%	Sim. to ISO 62			
Density	1320 / -	kg/m ³	ISO 1183			
Rheological calculation properties	Value	Unit	Test Standard			
ISO Data						
Density of melt	1110	kg/m ³	-			

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Thermal conductivity of melt	0.28	W/(m K)	-
Spec. heat capacity of melt	2830	J/(kg K)	-
Eff. thermal diffusivity	8.99E-8	m ² /s	-

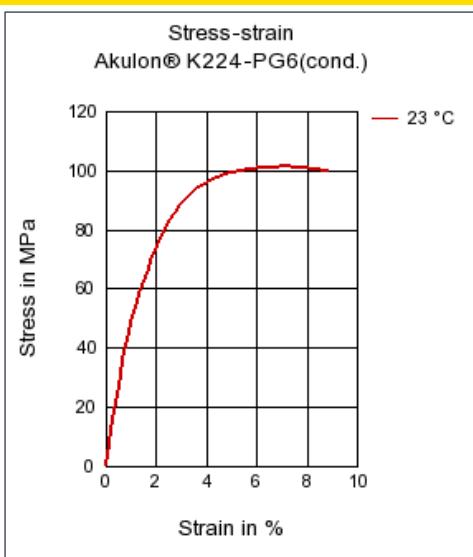
Diagrams**Viscosity-shear rate****Shearstress-shear rate****Dynamic Shear modulus-temperature****Stress-strain**

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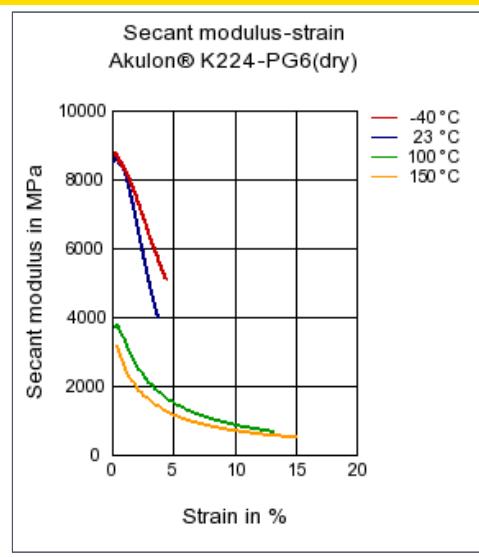
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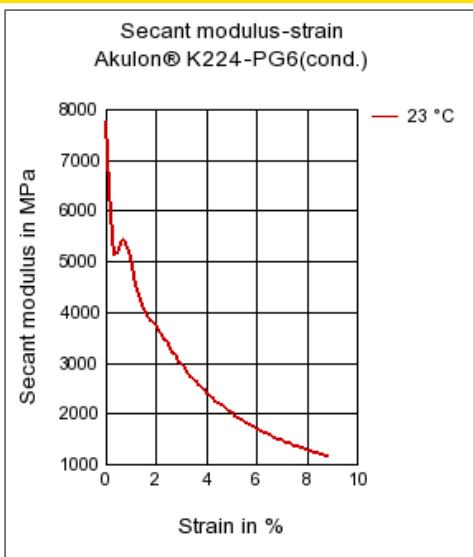
Stress-strain



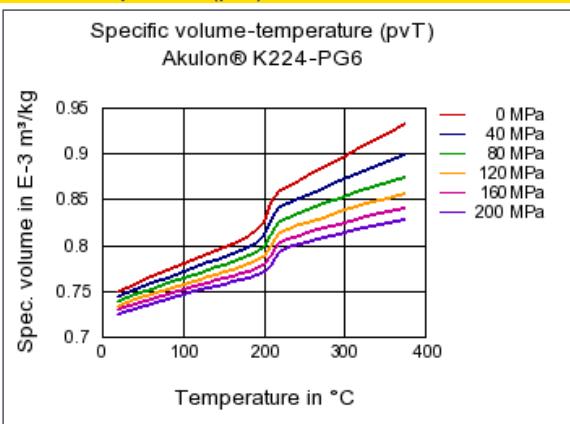
Secant modulus-strain



Secant modulus-strain



Specific volume-temperature (pvT)



Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Special Characteristics

High impact or impact modified

Other text information

Injection Molding

[Injection Molding Recommendations](#)