

Akulon® K222-KGV6

PA6-GF30 FR

DSM Engineering Plastics

Product Texts

30% Glass Reinforced, Heat Stabilized, Flame Retardant (halogen- phosphorous-free)

ISO 1043 PA6-GF30 FR

[Akulon website](#)

Rheological properties	dry / cond	Unit	Test Standard
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ISO Data			
Molding shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
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ISO Data			
Tensile Modulus	6900 / -	MPa	ISO 527-1/-2
Stress at break	80 / -	MPa	ISO 527-1/-2
Strain at break	3.6 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	43 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / -	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
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ISO Data			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	180 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-

Electrical properties	dry / cond	Unit	Test Standard
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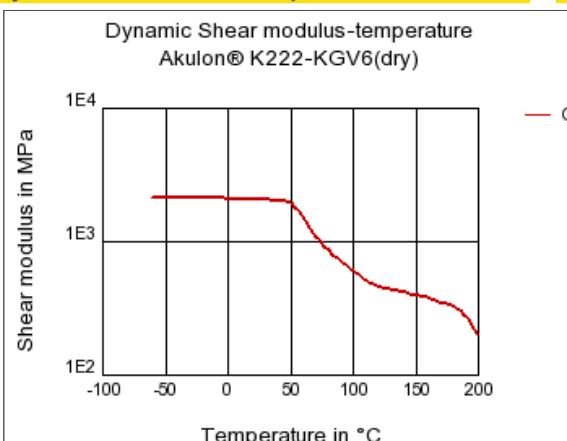
ISO Data			
Comparative tracking index	525 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
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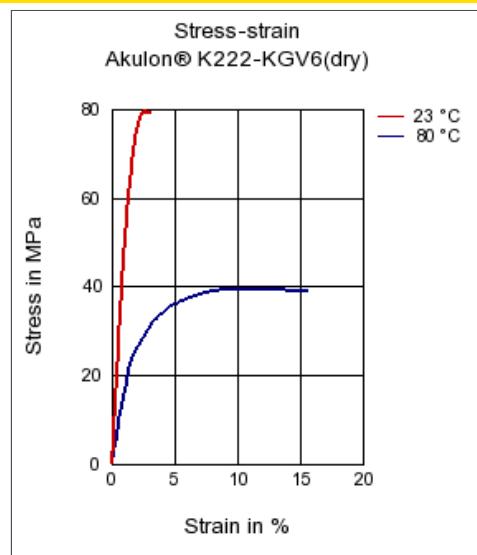
ISO Data			
Water absorption	5.6 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1440 / -	kg/m ³	ISO 1183

Diagrams

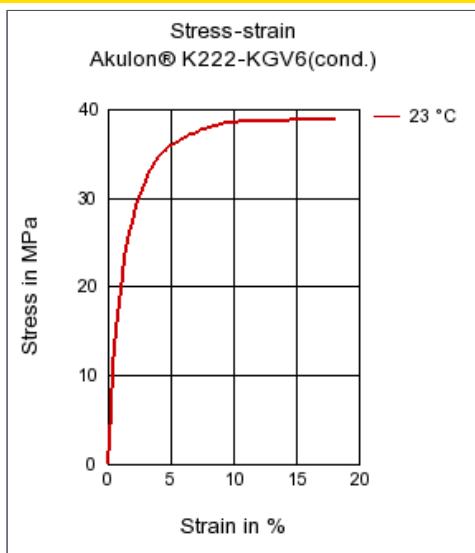
Dynamic Shear modulus-temperature



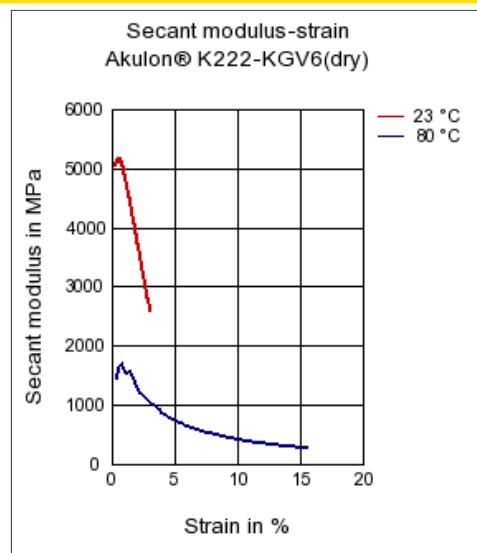
Stress-strain



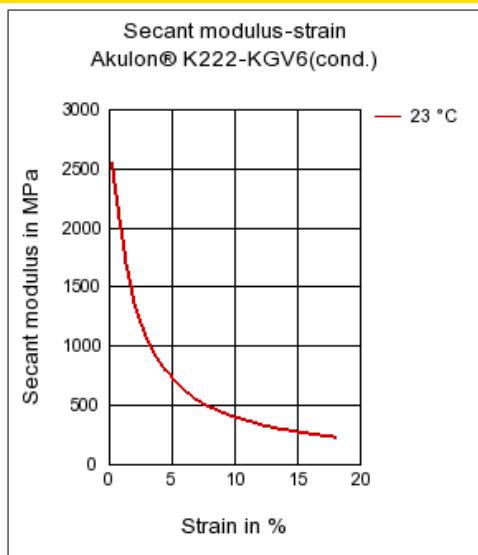
Stress-strain



Secant modulus-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Other text information

Injection Molding

[Injection Molding Recommendations](#)