


Akulon® K225-KV

PA6 FR(30)

DSM Engineering Plastics

Product Texts

Flame Retardant (halogen free), Heat Stabilized

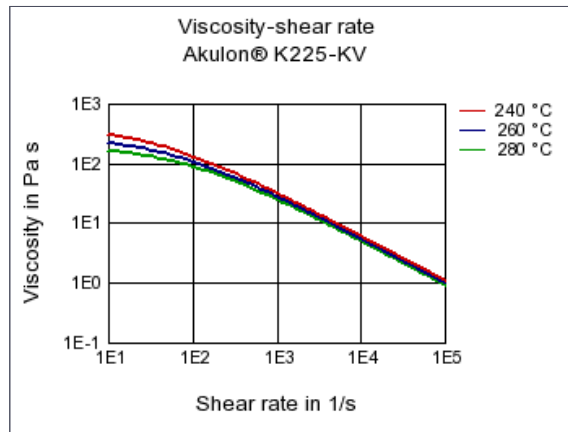
ISO 1043 PA6 FR(30)

[Akulon website](#)

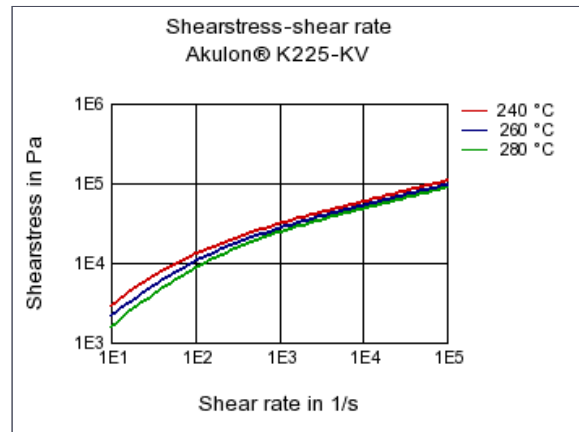
Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.0 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	4200 / 1600	MPa	ISO 527-1/-2
Yield stress	70 / 35	MPa	ISO 527-1/-2
Yield strain	3 / 30	%	ISO 527-1/-2
Nominal strain at break	4 / >50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	40 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 9	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	3 / 5	kJ/m²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Burning behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	3.3 / 8	-	IEC 60250
Relative permittivity, 1MHz	3.2 / 3.6	-	IEC 60250
Dissipation factor, 100Hz	90 / 1250	E-4	IEC 60250
Dissipation factor, 1MHz	200 / 800	E-4	IEC 60250
Volume resistivity	>1E13 / 1E11	Ohm*m	IEC 60093
Surface resistivity	* / 1E14	Ohm	IEC 60093
Electric strength	30 / 25	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112
Other properties			
ISO Data			
Water absorption	7.5 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1210 / -	kg/m³	ISO 1183

Diagrams

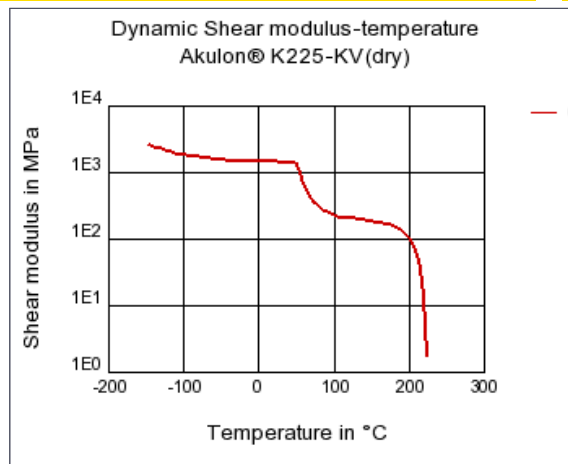
Viscosity-shear rate



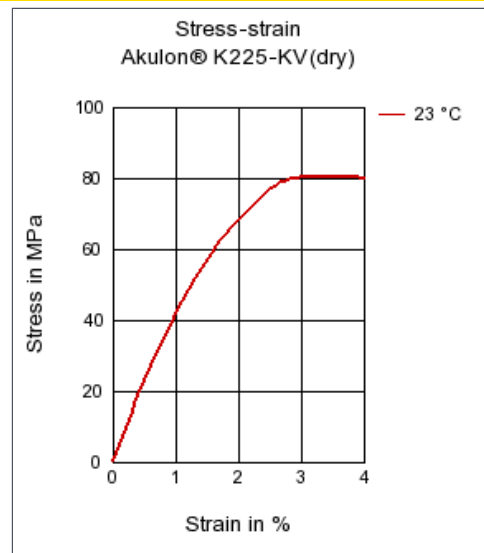
Shearstress-shear rate



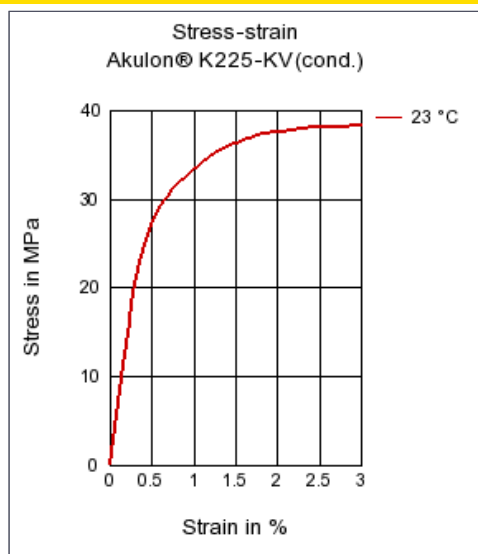
Dynamic Shear modulus-temperature



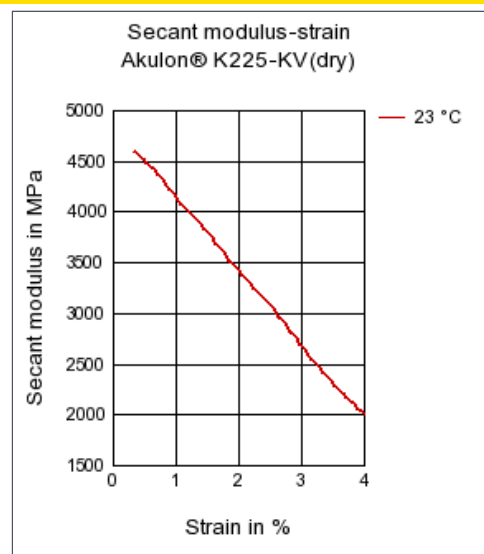
Stress-strain



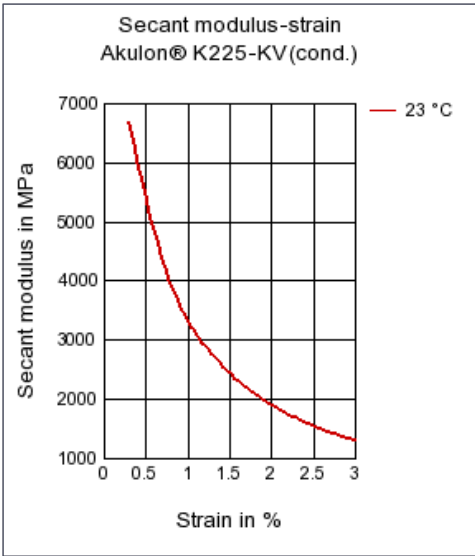
Stress-strain



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](#)