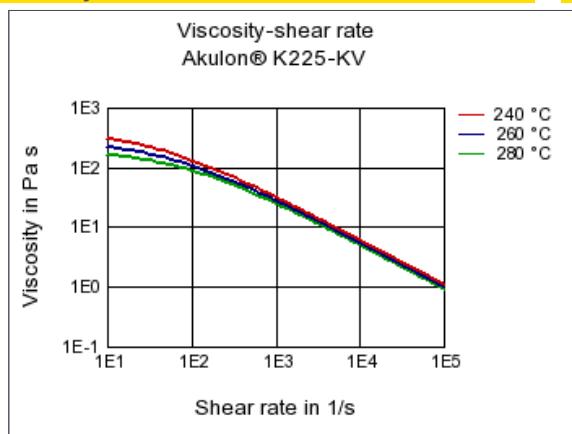


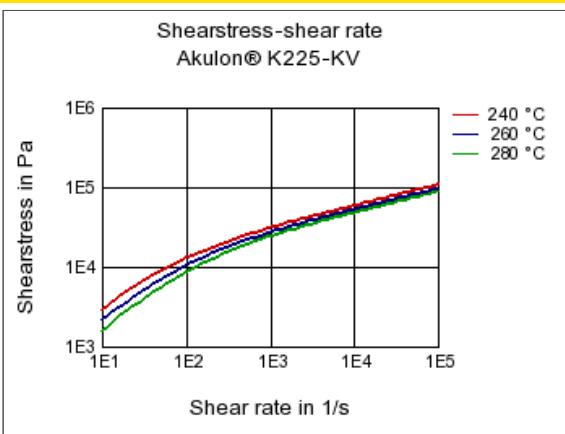
<b>Akulon® K225-KV</b>			
PA6 FR(30)			
<b>Product Texts</b>			
Flame Retardant (halogen free), Heat Stabilized			
ISO 1043 PA6 FR(30)			
<a href="#">Akulon website</a>			
<b>Rheological properties</b>		<b>dry / cond</b>	<b>Unit</b>
<b>ISO Data</b>			<b>Test Standard</b>
Molding shrinkage, parallel		1.0 / *	%
Molding shrinkage, normal		1.0 / *	%
<b>Mechanical properties</b>		<b>dry / cond</b>	<b>Unit</b>
<b>ISO Data</b>			<b>Test Standard</b>
Tensile Modulus		4200 / 1600	MPa
Yield stress		70 / 35	MPa
Yield strain		3 / 30	%
Nominal strain at break		4 / >50	%
Charpy impact strength (+23°C)		40 / -	kJ/m <sup>2</sup>
Charpy notched impact strength (+23°C)		4 / 9	kJ/m <sup>2</sup>
Charpy notched impact strength, -30°C		3 / 5	kJ/m <sup>2</sup>
<b>Thermal properties</b>		<b>dry / cond</b>	<b>Unit</b>
<b>ISO Data</b>			<b>Test Standard</b>
Melting temperature (10°C/min)		220 / *	°C
Burning behav. at 1.5 mm nom. thickn.		V-2 / *	class
Thickness tested		0.4 / *	mm
UL recognition		UL / *	-
Burning behav. at thickness h		V-2 / *	class
Thickness tested		3.0 / *	mm
UL recognition		UL / *	-
<b>Electrical properties</b>		<b>dry / cond</b>	<b>Unit</b>
<b>ISO Data</b>			<b>Test Standard</b>
Relative permittivity, 100Hz		3.3 / 8	-
Relative permittivity, 1MHz		3.2 / 3.6	-
Dissipation factor, 100Hz		90 / 1250	E-4
Dissipation factor, 1MHz		200 / 800	E-4
Volume resistivity		>1E13 / 1E11	Ohm*m
Surface resistivity		* / 1E14	Ohm
Electric strength		30 / 25	kV/mm
Comparative tracking index		600 / -	-
<b>Other properties</b>		<b>dry / cond</b>	<b>Unit</b>
<b>ISO Data</b>			<b>Test Standard</b>
Water absorption		7.5 / *	%
Humidity absorption		2 / *	%
Density		1210 / -	kg/m <sup>3</sup>
DSM Engineering Plastics			

## Diagrams

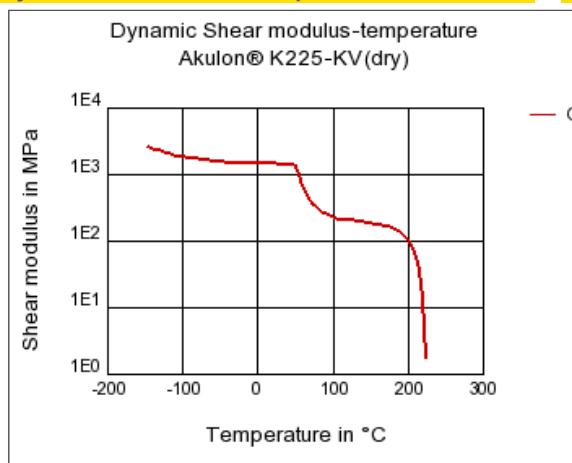
## Viscosity-shear rate



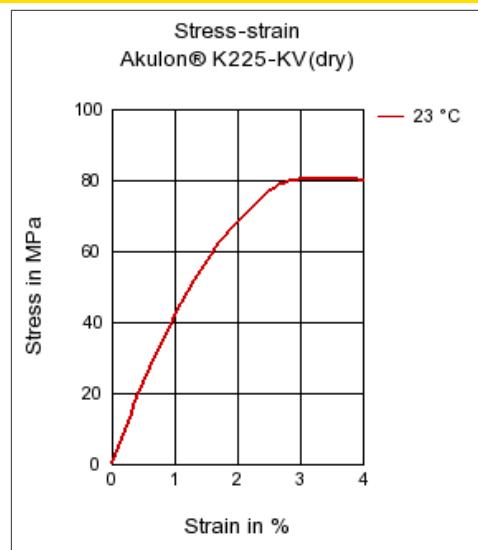
## Shearstress-shear rate



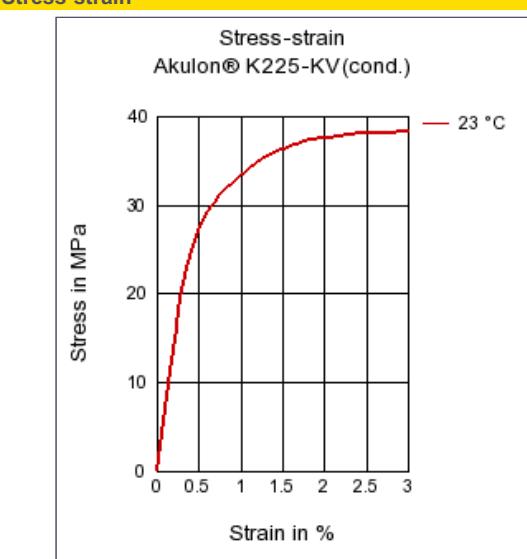
## Dynamic Shear modulus-temperature



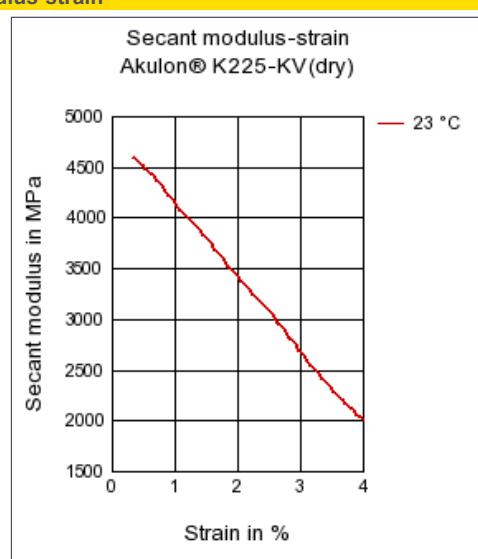
## Stress-strain



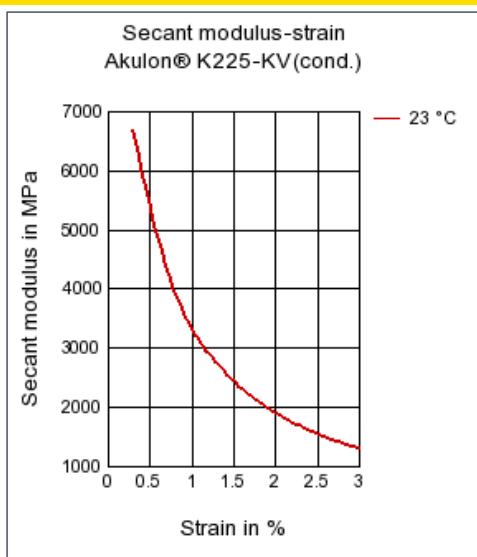
## Stress-strain



## 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](#)