

Akulon® K223-KMV6

PA6-MD30 FR(17)

DSM Engineering Plastics

Product Texts

30% Mineral Reinforced, Heat Stabilized, Flame Retardant

ISO 1043 PA6-MD30 FR(17)

[Akulon website](#)

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	22 / *	cm ³ /10min	ISO 1133
Temperature	250 / *	°C	ISO 1133
Load	2.16 / *	kg	ISO 1133
Molding shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	6600 / 3500	MPa	ISO 527-1/-2
Stress at break	70 / 40	MPa	ISO 527-1/-2
Strain at break	2.5 / 4	%	ISO 527-1/-2
Charpy impact strength (+23°C)	35 / 60	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	35 / 35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	2 / 2	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	2 / 2	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	120 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	205 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	50 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	50 / *	E-6/K	ISO 11359-1/-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-0 / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	3.6 / 10	-	IEC 60250
Relative permittivity, 1MHz	3.2 / 3.7	-	IEC 60250
Dissipation factor, 100Hz	85 / 3000	E-4	IEC 60250
Dissipation factor, 1MHz	140 / 900	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	375 / 375	-	IEC 60112
Other properties			
ISO Data			
Water absorption	6.2 / *	%	Sim. to ISO 62

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Humidity absorption

1.7 / *

%

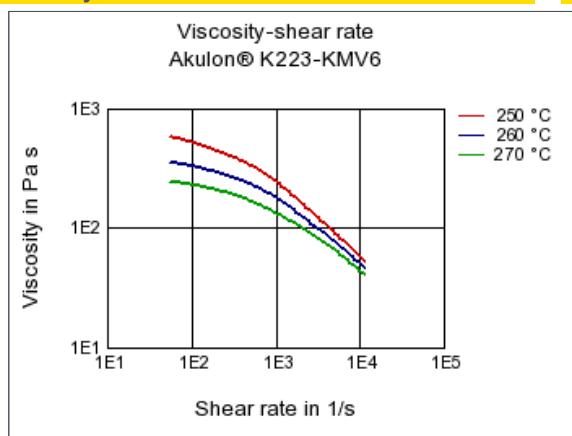
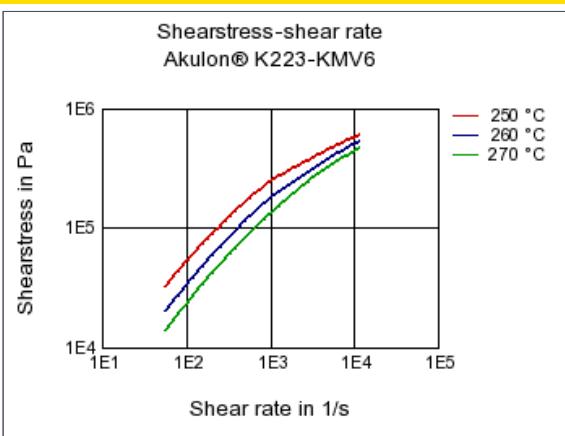
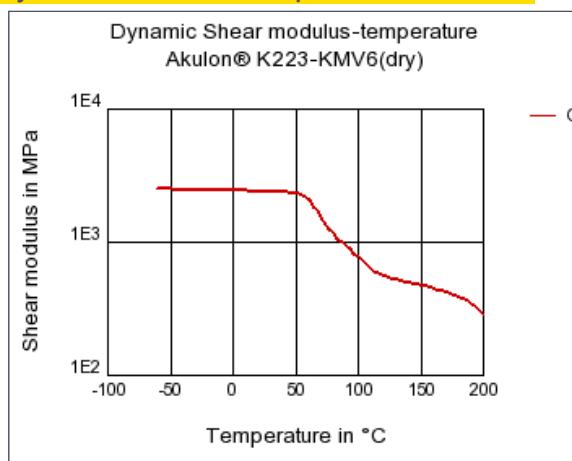
Sim. to ISO 62

Density

1530 / -

kg/m³

ISO 1183

Diagrams**Viscosity-shear rate****Shearstress-shear rate****Dynamic Shear modulus-temperature****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](#)