

Akulon® K223-P2

PA6-I

DSM Engineering Plastics

Product Texts

Impact Modified

ISO 1043 PA6-I

[Akulon website](#)

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	2500 / 750	MPa	ISO 527-1/-2
Yield stress	70 / 38	MPa	ISO 527-1/-2
Yield strain	4 / 25	%	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	16 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	8 / 8	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Temp. of deflection under load (1.80 MPa)	55 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	130 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	140 / *	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			
ISO Data			
Relative permittivity, 100Hz	3.4 / 14	-	IEC 60250
Relative permittivity, 1MHz	3.1 / 4.5	-	IEC 60250
Dissipation factor, 100Hz	80 / 3000	E-4	IEC 60250
Dissipation factor, 1MHz	200 / 1200	E-4	IEC 60250
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E14	Ohm	IEC 60093
Electric strength	28 / 20	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112
Other properties			
ISO Data			
Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1110 / -	kg/m ³	ISO 1183
Rheological calculation properties			
ISO Data			
Density of melt	915	kg/m ³	-
Thermal conductivity of melt	0.23	W/(m K)	-
Spec. heat capacity of melt	2710	J/(kg K)	-

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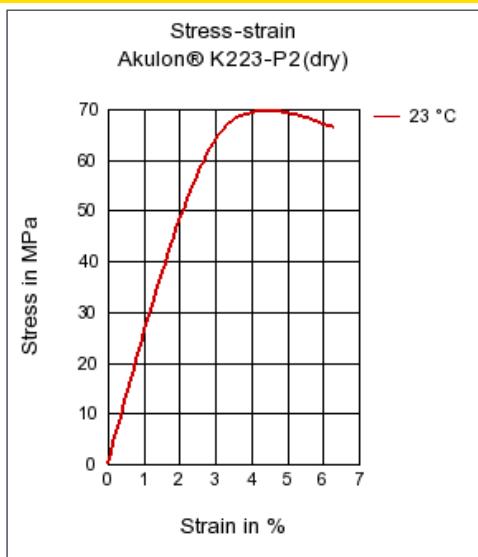
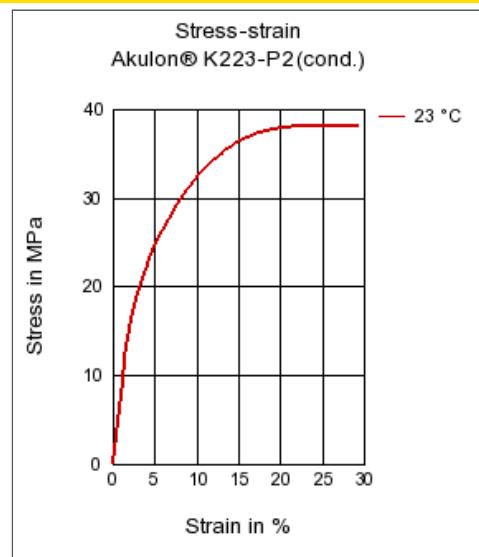
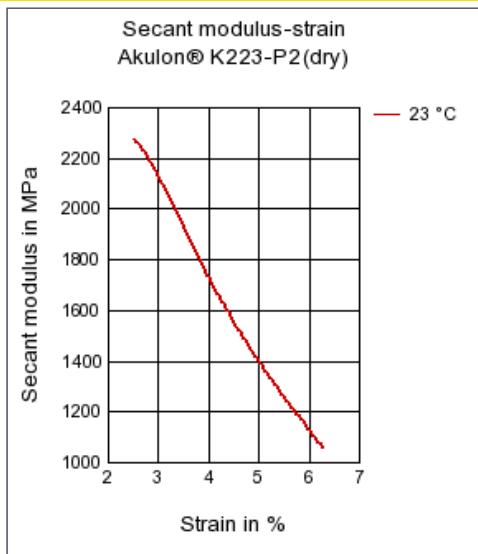
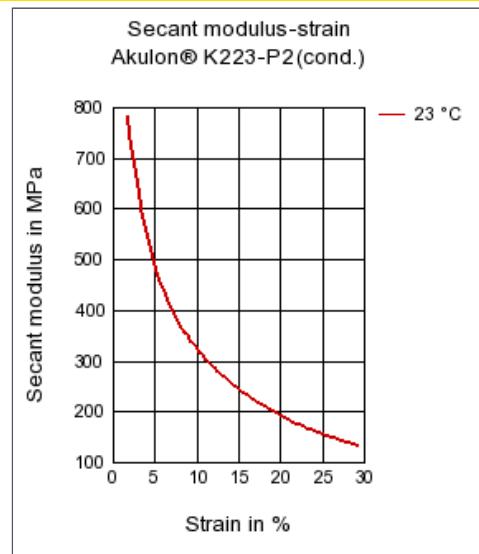
DSM Engineering Plastics

Eff. thermal diffusivity

9.28E-8

m²/s

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Diagrams**Stress-strain****Stress-strain****Secant modulus-strain****Secant modulus-strain****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**