

Akulon® K223-HM6

PA6-MD30

30% Mineral Reinforced, Heat Stabilized

Print Date: 2021-02-13

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.79 / *	%	ISO 294-4
Molding shrinkage (normal)	0.69 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	6100 / 3000	MPa	ISO 527-1/-2
Stress at break	75 / 40	MPa	ISO 527-1/-2
Strain at break	3.5 / 15	%	ISO 527-1/-2
Flexural modulus	6100 / 2250	MPa	ISO 178
Flexural strength	120 / 50	MPa	ISO 178
Charpy impact strength (+23°C)	40 / 50	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	40 / 40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / 4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	2 / 3	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	135 / *	°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)	0.4 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.4 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10

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Properties	Typical Data	Unit	Test Method
Thickness tested	3 / *	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10

Electrical properties

dry / cond

Relative permittivity (100Hz)	3.2 / 15	-	IEC 60250
Relative permittivity (1 MHz)	3 / 4.5	-	IEC 60250
Dissipation factor (100 Hz)	50 / 3500	E-4	IEC 60250
Dissipation factor (1 MHz)	130 / 1100	E-4	IEC 60250
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 60093
Surface resistivity	- / 1E13	Ohm	IEC 60093
Electric strength	30 / 25	kV/mm	IEC 60243-1
Comparative tracking index	500 / 500	V	IEC 60112

Other properties

dry / cond

Water absorption	6.6 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1380 / -	kg/m ³	ISO 1183

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