

Akulon® K223-P2

PA6-I

Impact Modified

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	1.37 / *	%	ISO 294-4
Molding shrinkage (normal)	1.45 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	2500 / 750	MPa	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Yield stress	70 / 38	MPa	ISO 527-1/-2
Yield strain	4 / 25	%	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 / 28	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8 / 8	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
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)	1 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.4 / *	E-4/°C	ISO 11359-1/-2
Electrical properties			
	dry / cond		
Relative permittivity (100Hz)	3.4 / 14	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.1 / 4.5	-	IEC 62631-2-1
Dissipation factor (100 Hz)	80 / 3000	E-4	IEC 62631-2-1



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Dissipation factor (1 MHz)	200 / 1200	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E14	Ohm	IEC 62631-3-2
Electric strength	28 / 20	kV/mm	IEC 60243-1
Comparative tracking index	* / 600	V	IEC 60112

Other properties

dry / cond

Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1110 / -	kg/m ³	ISO 1183

