

DSM Engineering Plastics - Property Data

Akulon® K224-PG6

(PA6+Imod)-GF30

30% Glass Reinforced, Impact Modified

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES		dry / cond	
Molding shrinkage (parallel)	0.25 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
MECHANICAL PROPERTIES		dry / cond	
Tensile modulus	8500 / 4800	MPa	ISO 527-1/-2
Stress at break	145 / 90	MPa	ISO 527-1/-2
Strain at break	4.5 / 10	%	ISO 527-1/-2
Charpy impact strength (+23°C)	95 / 110	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	100 / 100	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	25 / 45	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	17 / 17	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES		dry / cond	
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.6 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES		dry / cond	
Relative permittivity (100Hz)	3.8 / 14	-	IEC 60250
Relative permittivity (1 MHz)	3.5 / 4.5	-	IEC 60250
Dissipation factor (100 Hz)	90 / 3000	E-4	IEC 60250
Dissipation factor (1 MHz)	150 / 1200	E-4	IEC 60250
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 60093
Surface resistivity	*/ 1E14	Ohm	IEC 60093
Electric strength	25 / 20	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	-	IEC 60112
OTHER PROPERTIES		dry / cond	
Water absorption	5.7 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1320 / -	kg/m ³	ISO 1183

