

DSM Engineering Plastics - Property Data

Akulon® K223-KM6

PA6-MiD30

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES		dry / cond	
Molding shrinkage (parallel)	1.1 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
MECHANICAL PROPERTIES		dry / cond	
Tensile modulus	5000 / -	MPa	ISO 527-1/-2
Stress at break	85 / -	MPa	ISO 527-1/-2
Strain at break	15 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	190 / -	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	120 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	5.5 / -	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)	85 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	190 / *	°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 1.6 mm nom. thickn.	HB / *	class	IEC 60695-11-10
OTHER PROPERTIES		dry / cond	
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m ³	ISO 1183

