

DSM Engineering Plastics - Property Data

Akulon® S224-KMV7

PA66-MiD35

35% Mineral Reinforced, Heat Stabilized, Flame Retardant

Properties	Typical Data	Unit	Test Method
MECHANICAL PROPERTIES		dry / cond	
Tensile modulus	9200 / -	MPa	ISO 527-1/-2
Stress at break	75 / -	MPa	ISO 527-1/-2
Strain at break	2 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	30 / 50	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	30 / 30	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 10	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)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	175 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	240 / *	°C	ISO 75-1/-2
Burning Behav. at 1.6 mm nom. thickn.	V-1 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES		dry / cond	
Relative permittivity (100Hz)	3.4 / 10	-	IEC 60250
Relative permittivity (1 MHz)	3.2 / 4	-	IEC 60250
Dissipation factor (100 Hz)	80 / 1600	E-4	IEC 60250
Dissipation factor (1 MHz)	130 / 600	E-4	IEC 60250
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 60093
Surface resistivity	* / 1E14	Ohm	IEC 60093
Electric strength	30 / 25	kV/mm	IEC 60243-1
Comparative tracking index	525 / 525	-	IEC 60112
OTHER PROPERTIES		dry / cond	
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1590 / -	kg/m ³	ISO 1183

DSM Product

Unlimited. **DSM**

