

Akulon® F232-D

PA6

High Viscosity

Properties	Typical Data	Unit	Test Method
Mechanical properties			
	dry / cond		
Tensile modulus	3300 / -	MPa	ISO 527-1/-2
Nominal strain at break	25 / -	%	ISO 527-1/-2
Yield stress	85 / -	MPa	ISO 527-1/-2
Yield strain	4 / -	%	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)	6 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / -	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)	60 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	160 / *	°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
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
Thickness tested	3 / *	mm	IEC 60695-11-10
Electrical properties			
	dry / cond		
Relative permittivity (100Hz)	3.9 / 14	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.4 / 4.5	-	IEC 62631-2-1



Property Data

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Properties	Typical Data	Unit	Test Method
Dissipation factor (100 Hz)	110 / 3000	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	220 / 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	27 / 20	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	V	IEC 60112

Other properties

dry / cond

Water absorption	10 / *	%	Sim. to ISO 62
Humidity absorption	3 / *	%	Sim. to ISO 62
Density	1130 / -	kg/m ³	ISO 1183

Material specific properties

dry / cond

Viscosity number	214 / *	cm ³ /g	ISO 307, 1157, 1628
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