

Akulon® F232-D

PA6

High Viscosity

Properties	Typical Data	Unit	Test Method
Mechanical properties			
	dry / cond		
Tensile modulus	3300/-	MPa	ISO 527-1/-2
Yield stress	85/-	MPa	ISO 527-1/-2
Yield strain	4/-	%	ISO 527-1/-2
Nominal strain at break	35/-	%	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)	7/-	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)	150/*	°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 Beh. at 1.5 mm nom. thickn.	HB/*	class	IEC 60695-11-10
Thickness tested	1.5/*	mm	IEC 60695-11-10
Burning Beh. at thickness h	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 60250
Relative permittivity (1 MHz)	3.4/4.5	-	IEC 60250
Dissipation factor (100 Hz)	110/3000	E-4	IEC 60250
Dissipation factor (1 MHz)	220/1200	E-4	IEC 60250
Volume resistivity	1E13/1E10	Ohm*m	IEC 60093
Surface resistivity	*/1E14	Ohm	IEC 60093
Electric strength	27/20	kV/mm	IEC 60243-1
Comparative tracking index	600/600	-	IEC 60112

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Properties	Typical Data	Unit	Test Method
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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