

Akulon® F160-Z

PA6

Very High Viscosity, Lubricated, Food Contact Quality

Properties	Typical Data	Unit	Test Method
Mechanical properties			
	dry / cond		
Tensile modulus	3200 / -	MPa	ISO 527-1/-2
Nominal strain at break	>50 / -	%	ISO 527-1/-2
Yield stress	85 / -	MPa	ISO 527-1/-2
Yield strain	4 / -	%	ISO 527-1/-2
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion (parallel)	1 / *	E-4/°C	ISO 11359-1/-2
Electrical properties			
	dry / cond		
Relative permittivity (100Hz)	3.4 / -	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.1 / -	-	IEC 62631-2-1
Dissipation factor (100 Hz)	65 / -	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	165 / -	E-4	IEC 62631-2-1
Volume resistivity	1E13 / -	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E15	Ohm	IEC 62631-3-2
Electric strength	25 / -	kV/mm	IEC 60243-1
Other properties			
	dry / cond		
Water absorption	9.5 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1130 / -	kg/m ³	ISO 1183



Property Data

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Material specific properties	dry / cond		
Viscosity number	450 / *	cm ³ /g	ISO 307, 1157, 1628

