

Akulon® F136-DH

PA6

High Viscosity, Nucleated, Heat Stabilized, Tube Extrusion

Print Date: 2019-10-23

Properties	Typical Data	Unit	Test Method
Mechanical properties			
	Value		
Tensile modulus	3150	MPa	ISO 527-1/-2
Nominal strain at break	45	%	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	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5.5	kJ/m ²	ISO 179/1eA
Thermal properties			
	Value		
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)	170	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	IEC 60695-11-10
Electrical properties			
	Value		
Relative permittivity (100Hz)	3.4	-	IEC 60250
Relative permittivity (1 MHz)	3.1	-	IEC 60250
Dissipation factor (100 Hz)	65	E-4	IEC 60250
Dissipation factor (1 MHz)	165	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	25	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112

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Properties	Typical Data	Unit	Test Method
Other properties			
	Value		
Water absorption	9.5	%	Sim. to ISO 62
Humidity absorption	2.5	%	Sim. to ISO 62
Density	1130	kg/m ³	ISO 1183
Material specific properties			
	Value		
Viscosity number	245	cm ³ /g	ISO 307, 1157, 1628