

Akulon[®] F136–DH

PA6

High Viscosity, Nucleated, Heat Stabilized, Tube Extrusion

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	1.5	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			
	VALUE		
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

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Electric strength	25	kV/mm	IEC 60243–1
Comparative tracking index	600	V	IEC 60112
OTHER PROPERTIES	VALUE		
Water absorption	9.5	%	Sim. to ISO 62
Humidity absorption	2.5	%	Sim. to ISO 62
Density	1130	kg/m³	ISO 1183
MATERIAL SPECIFIC PROPERTIES	VALUE		
Viscosity number	245	cm³/g	ISO 307, 1157, 1628