

Akulon[®] F150–CZ

PA6

Very High Viscosity, Food Contact Quality, Lubricated

Print Date: 2025–11–07

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
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)	3.4 / –	–	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

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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	DRY / COND		
Viscosity number	370 / *	cm³/g	ISO 307, 1157, 1628

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