

Akulon[®] F160–Z

PA6

Very High Viscosity, Lubricated, Food Contact Quality

Print Date: 2024–03–27

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/m³	ISO 1183

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MATERIAL SPECIFIC PROPERTIES	DRY / COND		
Viscosity number	450 / *	cm³/g	ISO 307, 1157, 1628

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