Property Data

Envalior
Imagine the Future

Akulon® Ultraflow K-FHGR24

PA6-(GF+GB)30

10% Glass Fiber Reinforced, 20% Glass Beads Reinforced, Heat Stabilized, High Flow

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	6000 / 3500	MPa	ISO 527-1/-2
Stress at break	85 / 55	MPa	ISO 527-1/-2
Strain at break	2.5 / 5	%	ISO 527-1/-2
Flexural modulus	4900 / 2300	MPa	ISO 178
Flexural strength	124 / 63	MPa	ISO 178
Charpy impact strength (+23°C)	21 / -	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	21 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 6	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / 4	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	190 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.35 / *	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	3.5 / 14	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.3 / 4.5	-	IEC 62631-2-1
Dissipation factor (100 Hz)	50 / 3000	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	150 / 1200	E-4	IEC 62631-2-1
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E13	Ohm	IEC 62631-3-2

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Electric strength	35 / 25	kV/mm	IEC 60243–1
Comparative tracking index	350 / 350	V	IEC 60112
OTHER PROPERTIES	***DRY / COND***		
Water absorption	6.5 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1350 / –	kg/m³	ISO 1183

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