Property Data (Provisional)

Envalior
Imagine the Future

Akulon® AKV35H3.0UF

Akulon® Ultraflow S-FKG7 (S-X08862)

PA66-GF35

35% Glass Fiber Reinforced, Heat Stabilized, High Flow

Print Date: 2026-04-09

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.5 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	11500 / 8300	MPa	ISO 527-1/-2
Stress at break	200 / 145	MPa	ISO 527-1/-2
Strain at break	2.6 / 3.9	%	ISO 527-1/-2
Flexural modulus	10100 / 7500	MPa	ISO 178
Flexural strength	287 / 220	MPa	ISO 178
Charpy impact strength (+23°C)	58 / 70	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 13	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	240 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	255 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES	**DRY / COND**		
Volume resistivity	>1E13 / 2E10	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15 / 4E11	Ohm	IEC 62631-3-2
Electric strength	33 / –	kV/mm	IEC 60243-1
Comparative tracking index	600 / –	V	IEC 60112
OTHER PROPERTIES	**DRY / COND**		
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1410 / –	kg/m³	ISO 1183
MATERIAL SPECIFIC PROPERTIES	**DRY / COND**		
Viscosity number	93 / *	cm³/g	ISO 307, 1157, 1628

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