

Akulon[®] AKV25H2.0

Durethan[®] AKV25H2.0

PA66—GF25

Injection Molding, 25% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2026–02–05

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	8800 / 6000	MPa	ISO 527–1/–2
Stress at break	180 / 110	MPa	ISO 527–1/–2
Strain at break	3.2 / 7.5	%	ISO 527–1/–2
Flexural modulus	8000 / 5400	MPa	ISO 178
Flexural strength	260 / 140	MPa	ISO 178
Charpy impact strength (+23°C)	65 / 90	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	55 / 55	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 14	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	8 / 8	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	9 / 13	kJ/m²	ISO 180/1A
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)	259 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.25 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.75 / *	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

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
Oxygen index	23 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	650 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2 / -	mm	IEC 60695-2-12
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	4 / 11	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.5 / 4.5	-	IEC 62631-2-1
Dissipation factor (100 Hz)	110 / 2000	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	200 / 1000	E-4	IEC 62631-2-1
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E13	Ohm	IEC 62631-3-2
Electric strength	40 / 35	kV/mm	IEC 60243-1
Comparative tracking index	400 / -	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Water absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1320 / -	kg/m ³	ISO 1183
MATERIAL SPECIFIC PROPERTIES	DRY / COND		
Viscosity number	146 / *	cm ³ /g	ISO 307, 1157, 1628

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