Property Data

Envalior
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Akulon® AKV30H2.0 DUS800

Akulon® S223-HG6

PA66-GF30

30% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2026-01-28

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage [parallel]	0.2 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.2 / *	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	10000 / 6500	MPa	ISO 527-1/-2
Stress at break	200 / 125	MPa	ISO 527-1/-2
Strain at break	3.6 / 6	%	ISO 527-1/-2
Flexural modulus	9200 / 6200	MPa	ISO 178
Flexural strength	290 / 200	MPa	ISO 178
Tensile modulus (200°C)	3350	MPa	ISO 527-1/-2
Stress at break (200°C)	70	MPa	ISO 527-1/-2
Strain at break (200°C)	9.3	%	ISO 527-1/-2
Charpy impact strength (+23°C)	90 / 90	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	65 / 68	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 20	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / 10	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	10 / 15	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)	250 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	260 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2

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Coeff. of linear therm. expansion (normal)	0.7 / *	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
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10

ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	3.8 / 10	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.5 / 4.1	-	IEC 62631-2-1
Dissipation factor (100 Hz)	90 / 2800	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	160 / 800	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	30 / 25	kV/mm	IEC 60243-1
Comparative tracking index	500 / 500	V	IEC 60112

OTHER PROPERTIES	DRY / COND		
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m³	ISO 1183