Property Data

Envalior
Imagine the Future

Akulon® AKV50XTS4

Akulon® Diablo HT–HG0

(PA66+PA6)–GF50

50% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2026–07–22

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	1 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	16500 / 10000	MPa	ISO 527–1/–2
Stress at break	235 / 145	MPa	ISO 527–1/–2
Strain at break	2.8 / 4.6	%	ISO 527–1/–2
Flexural modulus	16000 / –	MPa	ISO 178
Flexural strength	360 / –	MPa	ISO 178
Tensile modulus (200°C)	4100	MPa	ISO 527–1/–2
Stress at break (200°C)	60	MPa	ISO 527–1/–2
Strain at break (200°C)	7.2	%	ISO 527–1/–2
Charpy impact strength (+23°C)	95 / 100	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	80 / 90	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15.5 / 25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	14 / 16	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)	245 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	255 / *	°C	ISO 75–1/–2
OTHER PROPERTIES	DRY / COND		

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Water absorption	4.8 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1580 / –	kg/m³	ISO 1183

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