

# Akulon<sup>®</sup> AKV35XTS5

 Akulon<sup>®</sup> Diablo HDT2500

## (PA66+PA6)–GF35

35% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2026–04–09

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	0.9 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	11000 / 6500	MPa	ISO 527–1/–2
Stress at break	195 / 115	MPa	ISO 527–1/–2
Strain at break	3.2 / 7	%	ISO 527–1/–2
Flexural modulus	10500 / 6300	MPa	ISO 178
Flexural strength	290 / 175	MPa	ISO 178
Tensile modulus (200°C)	3200	MPa	ISO 527–1/–2
Stress at break (200°C)	60	MPa	ISO 527–1/–2
Strain at break (200°C)	9.6	%	ISO 527–1/–2
Charpy impact strength (+23°C)	80 / 85	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	60 / 60	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 16	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	9 / 9	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
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)	258 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.4 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.5 / *	E–4/°C	ISO 11359–1/–2

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>OTHER PROPERTIES</b>			
Water absorption	5 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1410 / –	kg/m <sup>3</sup>	ISO 1183
<b>MATERIAL SPECIFIC PROPERTIES</b>			
Viscosity number	135 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628

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