Property Data

Envalior
Imagine the Future

Akulon® 6–G6

PA6–GF30

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	0.9 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	9000 / 6000	MPa	ISO 527–1/–2
Stress at break	140 / 80	MPa	ISO 527–1/–2
Strain at break	2 / 4	%	ISO 527–1/–2
Charpy impact strength (+23°C)	60 / –	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	40 / –	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / –	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	7 / –	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (0.45 MPa)	220 / *	°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
OTHER PROPERTIES	DRY / COND		
Water absorption	6.3 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1350 / –	kg/m³	ISO 1183

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