Property Data

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Akulon® Fuel Lock FL–LP

PA6

Low fuel permeation PA6 suitable for use in injection molding/welding of small engine fuel tanks, UV Stabilized

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	1800 / –	MPa	ISO 527–1/–2
Nominal strain at break	>50 / –	%	ISO 527–1/–2
Yield stress	50 / –	MPa	ISO 527–1/–2
Yield strain	4 / –	%	ISO 527–1/–2
Flexural modulus	1600 / –	MPa	ISO 178
Flexural strength	65 / –	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	65 / 75	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	18 / 25	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	DRY / COND		
Temp. of deflection under load (1.80 MPa)	50 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	130 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	1.2 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.2 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES	DRY / COND		
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1070 / –	kg/m³	ISO 1183