Property Data

Envalior
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Akulon® Fuel Lock FL40–HPX2

PA6–I

Low fuel permeation PA6 suitable for use in blow molding

Print Date: 2024–04–10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	1.6 / *	%	ISO 294–4
Molding shrinkage (normal)	1.5 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	2150 / 550	MPa	ISO 527–1/–2
Stress at break	46 / –	MPa	ISO 527–1/–2
Nominal strain at break	>50 / >50	%	ISO 527–1/–2
Yield stress	54 / –	MPa	ISO 527–1/–2
Yield strain	3.8 / –	%	ISO 527–1/–2
Flexural modulus	2000 / 520	MPa	ISO 178
Flexural strength	75 / 22	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)	90 / N	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	22 / 21	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	DRY / COND		
Temp. of deflection under load (1.80 MPa)	55 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	100 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	1.5 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.9 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES	DRY / COND		

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Water absorption	7.4 / *	%	Sim. to ISO 62
Humidity absorption	2.9 / *	%	Sim. to ISO 62
Density	1080 / –	kg/m³	ISO 1183