Akulon® Fuel Lock FL40-HPX1 NA99001

PA6-I — Envalior

Product Texts

Low fuel permeation PA6 suitable for use in blow molding

ISO 1043 PA6-I

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**60 / ***	cm³/10min	ISO 1133
Temperature	**275 / ***	°C	-
Load	**21.6 / ***	kg	-
[C] Molding shrinkage, parallel	**1.6 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.5 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2200 / 620**	MPa	ISO 527
[C] Yield stress	**62 / 32**	MPa	ISO 527
[C] Yield strain	**4.2 / 33**	%	ISO 527
[C] Nominal strain at break	**>50 / >50**	%	ISO 527
[C] Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**60 / N**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**17 / 15**	kJ/m²	ISO 179/1eA
[C] Puncture - maximum force, +23°C	**4000 / -**	N	ISO 6603-2
[C] Puncture - maximum force, -30°C	**5600 / -**	N	ISO 6603-2
[C] Puncture energy, +23°C	**50 / -**	J	ISO 6603-2
[C] Puncture energy, -30°C	**64 / -**	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**55 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**100 / ***	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**155 / ***	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**150 / ***	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**100 / ***	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**7.4 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**2.9 / ***	%	Sim. to ISO 62
[C] Density	**1070 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Processing conditions acc. ISO	**1874**	-	ISO ....-2
[C] Injection Molding, melt temperature	**280**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294
Injection Molding, injection velocity	**200**	mm/s	ISO 294

[C]: CAMPUS

Characteristics

Processing
Blow Molding

Special Characteristics
High impact or impact modified

Delivery form
Pellets

Regional Availability
North America, Europe, Asia Pacific

Other text information

Blow molding
Akulon® Fuel Lock Recommendations for Blow Moulding