

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	35 / *	cm ³ /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	2150 / 550	MPa	ISO 527
^[C] Yield stress	54 / -	MPa	ISO 527
^[C] Yield strain	3.8 / -	%	ISO 527
^[C] Nominal strain at break	>50 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	90 / N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	22 / 21	kJ/m ²	ISO 179/1eA
^[C] Puncture - maximum force, +23°C	4000 / -	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	5500 / -	N	ISO 6603-2
^[C] Puncture energy, +23°C	49 / -	J	ISO 6603-2
^[C] Puncture energy, -30°C	63 / -	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	90 / *	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	1080 / -	kg/m ³	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

Akulon® Fuel Lock FL40-HPX2

PA6-I

Envalior

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](#)