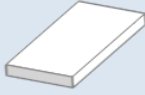
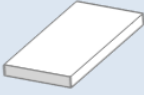
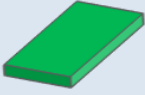
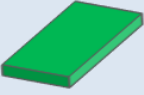
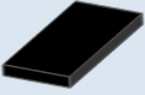
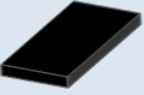


UHMW-PE HI-MOLER®
Semi-finished plastic products

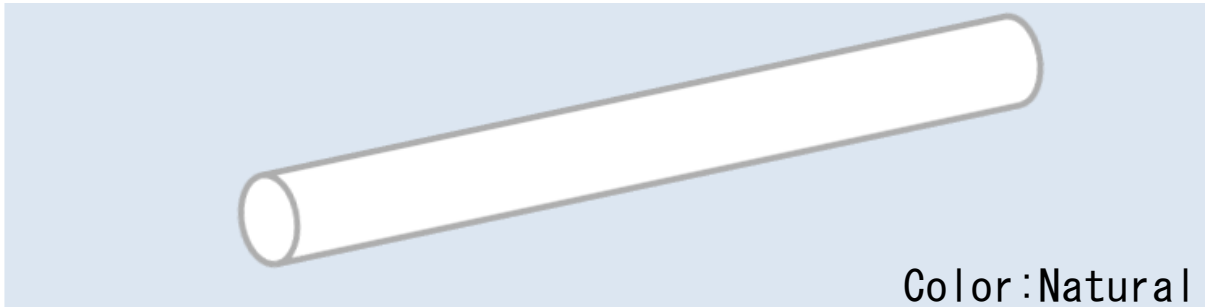
Semifinished product range

Hi-moler Sheets, compression molded

	Natural		Colored		Anti-static Black	
	1000W ×2000L	1200W ×2400L	1000W ×2000L	1200W ×2400L	1000W ×2000L	1200W ×2400L
						
Thickness(mm)						
10	○	○	■	■	■	■
12	○	○	■	■	■	■
15	○	○	■	■	■	■
20	○	○	■	■	■	■
25	○	○	■	■	■	■
30	○	○	■	■	■	■
35	○	○	■	■	■	■
40	○	○	■	■	■	■
45	○	○	■	■	■	■
50	○	○	■	■	■	■
55	○	■	■	■	■	■
60	○	■	■	■	■	■
65	○	■	■	■	■	■
70	○	■	■	■	■	■
75	○	■	■	■	■	■
80	○	■	■	■	■	■
90	○	■	■	■	■	■
100	○	■	■	■	■	■
120	■	—	■	—	■	—
130	■	—	■	—	■	—
140	■	—	■	—	■	—
150	■	—	■	—	■	—
160	■	—	■	—	■	—

○ Standard stock ■ Made-to-order (on request)

Hi-moler RAM-extruded Rods



Color: Natural

DIA (mm)	Length: 1000mm	Length: 2000mm	
50	○	■	
55	○	■	
60	○	■	
65	○	■	
70	○	■	
80	○	■	
90	○	■	
100	○	■	
110	■	—	Machined Rod
120	○	—	
130	■	—	Machined Rod
140	○	—	
150	■	—	Machined Rod
160	○	—	
180	■	—	Machined Rod
200	○	—	

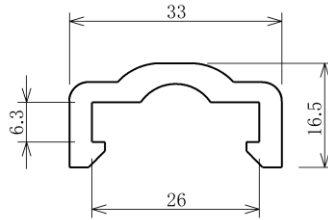
□ Standard stock ■ Made-to-order (on request)

Hi-moler Extruded Profiles

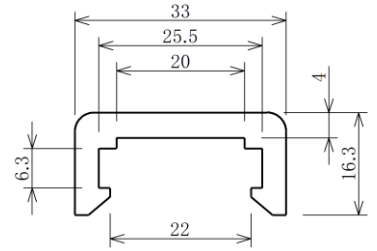
Standard Profile Shapes

HI-MOLER EX1300W (UHMW-PE Natural)

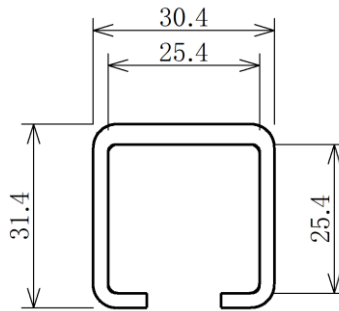
Type	Length (mm)
A	3000
A-II	2000
A-II	3000
Q-25	3000
C-10	3000
C-12	3000
R-10	3000
R-12	3000
V-3	50000
V-3L	50000
V-5	50000
V-6	50000
V-6H	50000
C-650	2000
C-650	3000
C-650	4000
C-675	2000
K	2000
K	2500



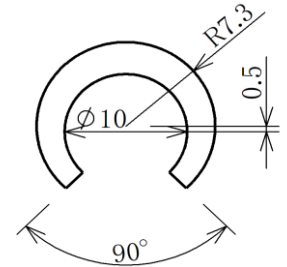
Type:A L:2000mm
L:3000mm



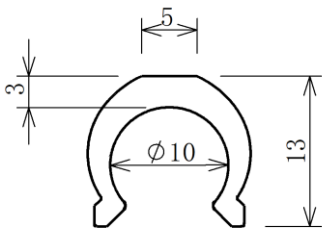
Type:A-II L:3000mm



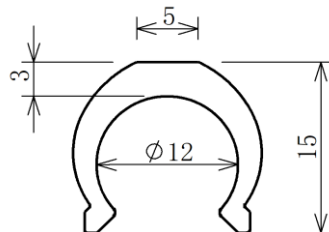
Type:Q-25 L:3000mm



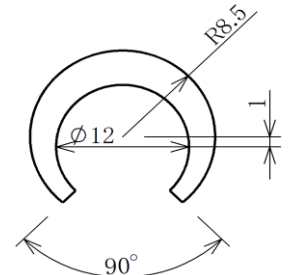
Type:C-10 L:3000mm



Type:R-10 L:3000mm

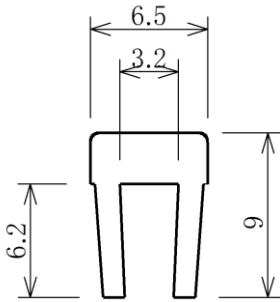


Type:R-12 L:3000mm

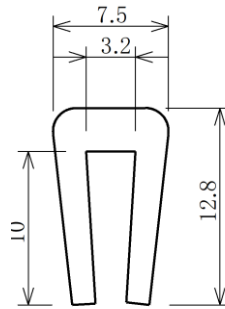


Type:C-12 L:3000mm

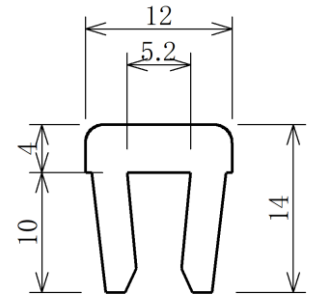
Hi-moler Extruded Profiles



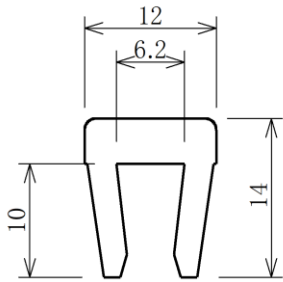
Type:V-3 L:50000mm



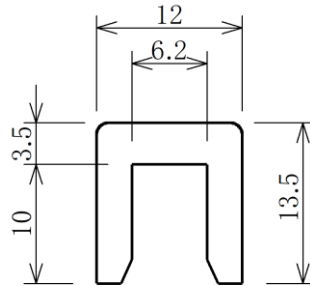
Type:V-3L L:50000mm



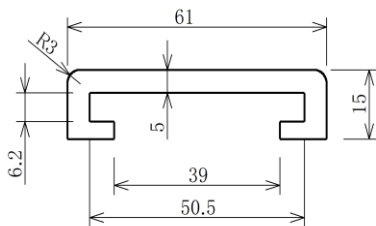
Type:V-5 L:50000mm



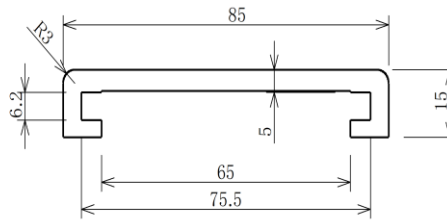
Type:V-6 L:50000mm



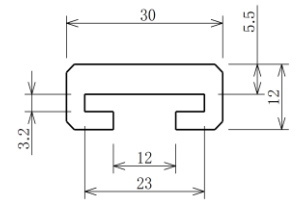
Type:V-6H L:50000mm



Type:C-650 L:2000mm
L:3000mm
L:4000mm



Type:C-675 L:2000mm



Type:K L:2000mm
L:2500mm

Characteristics and standard values

Physical properties

Physical properties			Hi-moler			Hi-celer
properties	test method	grade \ unit	EX 1300 (natural, green,black)	EX1300AST (anti-static)	EX1500Y (yellow)	A40B (black) A40W (white)
Technical data		Color	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>
density	JISK7112	g/cm ³	0.94	0.94	0.93	0.95~0.98
tensile strength at yield	JISK7113	Mpa(kg/cm ²)	24.1 (246)	25.8 (263)	21.9 (223)	15.5 (158)
tensile strength at break	JISK7113	Mpa(kg/cm ²)	40.8 (416)	46.7 (476)	43 (438)	35.2 (358)
elongation at break	JISK7113	%	334	374	390	290
flexural strength at yield	JISK7203	Mpa(kg/cm ²)	22.7 (232)	25.7 (262)	20.0 (204)	18.5 (188)
modulus in bending	JISK7203	Mpa(kg/cm ²)	1176 (12000)	1320 (13600)	816 (8320)	800 (8156)
durometer hardness	JISK7215	HDD	68	67	69	72
izod impact strength (notched)	JISK7110		no break	no break	no break	no break
melting point		°C	135	135	135	135
heat resistance		°C	90	90	90	90
coefficient of linear expansion	+20°C~90°C		1.9×10 ⁻⁴	1.9×10 ⁻⁴	1.9×10 ⁻⁴	1.8×10 ⁻⁴
thermal conductivity		Kcal/m.hr.°C	0.36	0.36	0.36	0.38
specific heat at 20°C		Kcalkg°C	0.44	0.44	0.44	0.44
surface resistivity	JISK7194	Ω/□	—	<10 ²	—	—
coefficient of friction	dry	—	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
	wet	—	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
abrasion index	sand-slurry abrasion (internal method)	%	0.09	0.1	0.08	0.15
	thrust abrasion index (internal method)	—	120	120	100	25
supplementary explanation			standard	electronics	paper industry lining	paper industry lining

*1: These physicalities are not guaranteed values. Please be used it as references

*2: Test condition: 3t-20t ,Applied voltage 90V.

*3: About special Grade and application use, Please contact us.

