



**QUADRANT**  
ENGINEERING PLASTIC PRODUCTS

**瑞士工程塑膠(亞太區)有限公司**  
**Quadrant Engineering Plastic Products Asia Pacific Ltd.**  
**POLYPENCO KOREA**

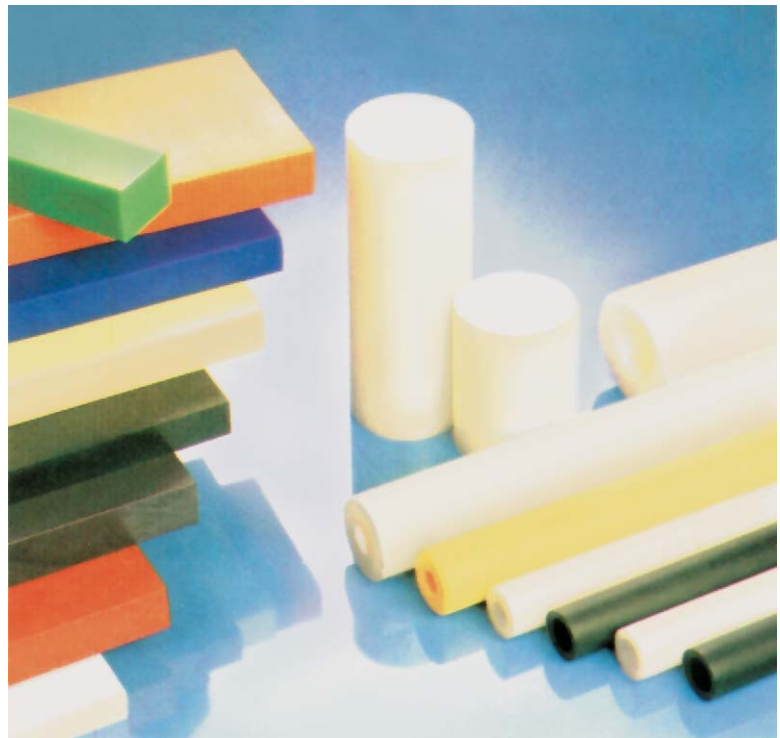
### **產品說明**

**Product Description**

**高密度PE型材產品**  
HD PE products

**同聚PP型材產品**  
PP-H products

**高黏度ABS板材**  
High Viscosity ABS plate



**工 程 塑 料 產 品**  
**Engineering Plastic Products**

機加工工程塑料型材產品的全球領先者  
global leader in engineering plastics for machining

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**高密度PE型材產品**  
 High Density PE products

DPE為一種高密度低內應力PE型材產品。  
 DPE as HDPE extrusion, help you reduce production costs by providing with unequaled quality at attractive prices.

**高黏度ABS板材**  
 High Viscosity ABS plate

DABS為一種高黏度低內應力ABS型材產品，厚度最高可達200mm。  
 DABS stress level reduced to minimum with maximum thickness up to 200mm. Ideal for making sample and mock-up.

**同聚PP型材產品**  
 PP-H products

DPP為一種同聚低內應力PP型材產品，在較高溫情況下，此產品能維持較佳的硬度，甚至可與沸水直接接觸。  
 DPP extrusions replace DPE in case of contacting boiling water due to its superior hardness at elevated temperatures.

**特性及應用 Properties & Applications**

特性	Properties	應用	Applications
重量輕	Light-weight	電鍍行業	Plating Equipment
能耐高溫	Resistant to Higher Temperature	化工容器	Storage Tank for Chemicals
絕緣	Good Electrical Properties	軸承	Bushing
能與食物接觸	Hygienic	齒輪	Gear
抗化學品	Resistant to most Chemicals	砧板	Cutting Board
自我潤滑	Self-Lubricity	道軌	Guide
高抗衝擊力	High Impact Strength		

**以上所有產品均經過嚴格回火程序，確保內應力達至最低水平。**  
**All our products are fully annealed under annealing guidelines to make sure minimum internal stress level**

**供貨目錄 Delivery Program**

**高黏度ABS板材 High Viscosity ABS plate**

標準規格 Standard Size : 600mm x 1000mm				
厚度 thickness	公差 Tolerance	闊度 Width	長度 Length	件重 Unit Weight
mm	mm	mm	mm	kg
8	+0.2 to +1.5	600	1000	5.28
10	+0.2 to +1.5	600	1000	6.60
12	+0.3 to +3.5	600	1000	7.92
15	+0.3 to +3.5	600	1000	9.90
20	+0.3 to +3.5	600	1000	13.20
25	+0.3 to +3.5	600	1000	16.50
30	+0.5 to +4.5	600	1000	19.80
35	+0.5 to +4.5	600	1000	23.10
40	+0.5 to +4.5	600	1000	26.40
45	+0.5 to +4.5	600	1000	29.70
50	+0.5 to +4.5	600	1000	33.00
60	+0.7 to +4.5	600	1000	39.60
70	+0.7 to +4.5	600	1000	46.20
80	+0.7 to +4.5	600	1000	52.80
90	+1.0 to +5.0	600	1000	59.40
100	+1.0 to +5.0	600	1000	66.00
120	+1.0 to +5.0	600	1000	79.20
150	+1.0 to +5.0	600	1000	99.00
200	+1.0 to +5.0	600	1000	132.00

**高密度PE / HDPE**

高密度PE棒材(原色) HDPE Rod Natural			
直徑 Diameter	公差 Tolerance	件數 kg / piece	
		L1000	L3000
15	+0.1 ~ +1.0	0.18	0.54
20		0.31	0.94
25		0.49	1.47
30	+0.2 ~ +1.5	0.71	2.12
35		0.96	2.88
40		1.26	3.77
45	+0.2 ~ +2.5	1.59	4.77
50		1.96	5.89
55		2.37	7.12
60	+0.5 ~ +3.0	2.83	8.48
65		3.32	9.95
70		3.85	11.54
75		4.42	13.25
80		5.02	15.07
85		5.67	17.01
90	+0.5 ~ +3.5	6.36	19.08
95		7.08	21.25
100		7.85	23.55
110		9.50	28.50
120	+1.0 ~ +4.5	11.30	33.91
125		12.27	36.80
130		13.27	39.80
140		15.39	46.16
150		17.66	52.99
160	+1.5 ~ +6.0	20.10	60.29
170		22.69	68.07
175		24.04	72.12
180		25.43	76.30
200	+2.0 ~ +7.0	31.40	94.20
210		34.62	103.86
225		39.74	119.22
250		49.06	147.18

高密度PE板材(原色) HDPE Plate Natural			
厚度 Thickness	公差 Tolerance	件數 kg / piece	
		1000x2000	1200x2400
3	-0.2 ~ +0.3		8.64
4			11.52
5			14.40
6	-0.3 ~ +0.4		17.28
8			23.04
10			28.80
12	+0.1 ~ +1.5	24.00	
15		30.00	
20	+0.1 ~ +2.0	40.00	
25		50.00	
30		60.00	
35		70.00	
40	+0.8 ~ +4.0	80.00	
45		90.00	
50	+0.8 ~ +4.5	100.00	
55		110.00	
60		120.00	
65		130.00	
70		140.00	
75	+0.8 ~ +5.0	150.00	
80		160.00	
85		170.00	
90		180.00	
100	+1.0 ~ +8.0	200.00	

**\*可訂造其他顏色，最低訂貨量為每規格一噸**  
**\* Other colour available upon request, MOQ 1 Ton per size**

**同聚 PP / PP-H**

同聚PP棒材(原色) PP-H Rod Natural			
直徑 Diameter	公差 Tolerance	件數 kg / piece	
		L1000	L3000
15	+0.1 ~ +1.0	0.18	0.54
20		0.31	0.94
25		0.49	1.47
30	+0.1 ~ +1.5	0.71	2.12
35		0.96	2.88
40		1.26	3.77
45	+0.4 ~ +2.5	1.59	4.77
50		1.96	5.89
55		2.37	7.12
60	+0.5 ~ +3.0	2.83	8.48
65		3.32	9.95
70		3.85	11.54
75		4.42	13.25
80		5.02	15.07
85		5.67	17.01
90	+0.5 ~ +3.5	6.36	19.08
95		7.08	21.25
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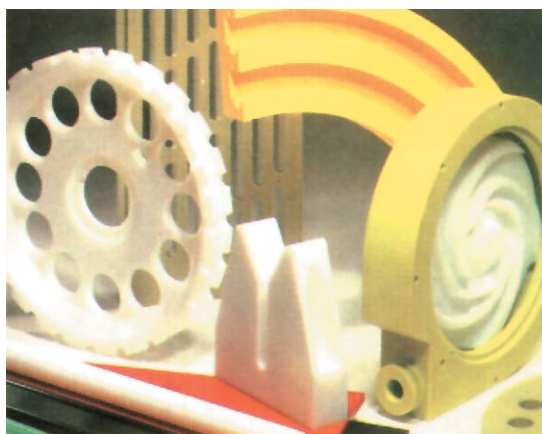
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		1000x2000	1200x2400
3	-0.2 ~ +0.3		8.64
4			11.52
5			14.40
6	-0.3 ~ +0.4		17.28
8			23.04
10			28.80
12	+0.1 ~ +1.5	24.00	
15		30.00	
20	+0.1 ~ +3.0	40.00	
25		50.00	
30		60.00	
35		70.00	
40	+0.8 ~ +4.0	80.00	
45		90.00	
50	+0.8 ~ +5.0	100.00	
55		110.00	
60		120.00	
65		130.00	
70		140.00	
75	+1.0 ~ +6.0	150.00	
80		160.00	
85		170.00	
90		180.00	
100	+1.0 ~ +8.0	200.00	

**\*可訂造其他顏色，最低訂貨量為每規格一噸**  
**\* Other colour available upon request, MOQ 1 Ton per size**

		ASTM NO	Unit	DPE (HDPE)	DPP (Polypropylene)
段震拉伸強度	Tensile Strength at Yield	D-638	kg/cm <sup>2</sup>	280	360
裂斷拉伸應變	Elongation at Break	"	%	600	500
拉伸彈性模量	Tensile Modulus of Elasticity	"	kg/cm <sup>2</sup>		
抗壓強度	Compressive Strength	D-695	kg/cm <sup>2</sup>		102
洛氏硬度	Rockwell Hardness (R-Scale)	D-785	-	54	102
抗衝擊強度	Impact Strength (Izod, Notched)	D-256	Kg · cm 2.54cm	230	10
熱變型溫度	HEAT Distortion Temp 18.5kg/cm <sup>2</sup> 4.6kg/cm <sup>2</sup>	D-648	°C	65	105
熱線性 膨脹系數	Coefficient of Linear Thermal Expansion	D-696	°C <sup>-5</sup>	15 × 10 <sup>-5</sup>	11 × 10 <sup>-5</sup>
吸水性 飽和情況下	Water Absorption 24hrs in Water Saturation in Water	D-570	%	<0.01	<0.01
密度	Specific-Gravity	D-792	-	0.95	0.90

以上表對材料的選用是很有幫助的。表內所列之數據乎合乾燥材料的產品性能正常範圍，然而不應將它當成是保證，既不能利用做材料特性極限，也不能在設計上單獨以此為標準。

The values given for properties should not be used for specifications.  
They are typical values intended for guidance to material selection.



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