

## 產品認證與許可

台塑公司聚縮醛廠為了提升品質，滿足客戶需求。從1994年即建立品質管理系統並通過國際標準組織ISO-9001認證。後續通過ISO 14001、OHSAS 18001等國際認證。

我們的產品**台塑鋼® FORMOCON®**亦通過美UL (Underwriters Laboratories) 塑膠材料規格認定，並合乎食品級FDA (Food and Drugs Administrations) 之要求。

此外，**台塑鋼® FORMOCON® FM090**已獲得NSF (National Sanitation Foundation) standard 61 認證，適合應用於飲用水設備之零組件材料。

下列各項認證資料，僅提供參考。若需更詳細資料或特殊符合性認證，請與本公司營業部門聯絡 (電話：886-2-27122211 # 8159、6137) (傳真：886-2-27181230)

## CERTIFICATIONS AND APPROVALS

Since 1994, FPC has established quality management system and obtained ISO 9001 certification in order to improve the quality of POM and meet the requirements of our customers. Our management system also has been certified to other important international standard certifications such as ISO-14001:2004, OHSAS-18001 and so on. Our product **FORMOCON®** are listed in UL (Underwriters Laboratories) of USA, and also comply with the regulations of FDA (Food and Drug Administration). **FORMOCON® FM090** is certified by NSF (National Sanitation Foundation), and comply with the requirements of NSF standard 61 for the drinking water system components.

Following is a list of certifications and approval for reference. For further or specific compliance information, please contact FPC sale department (Tel: 886-2-27122211 # 8159、6137) (Fax: 886-2-27181230)

## ◎ MANAGEMENT SYSTEM APPROVALS

- ▲ ISO 9001  
(Quality Management System, 品質管理系統)
- ▲ ISO 14001  
(Environment Management System, 環境管理系統)
- ▲ OHSAS 18001  
(Occupational Safety and Health Management System, 職業安全衛生管理系統)
- ▲ SONY GREEN PARTNER

## ◎ SAFETY & SANITARY APPROVALS

- ▲ UL (Underwriters Laboratories : USA)  
File No.:E173318
- ▲ CSA (Canadian Standard Associate : Canada)
- ▲ NSF (National Sanitation Foundation : USA)  
NSF61  
(Drinking Water System Components)  
Customer No.: 8220, Plant No.: 82201 DCC:IA07897
- ▲ FDA (Food and Drugs Administrations : USA)
- ▲ WRAS  
(Water Regulations Advisory Scheme: UK)
- ▲ KTW (Hygiene- Institut des Ruhrgebiets)
- ▲ SVHC (SVHC Related by ECHA)
- ▲ ROHS (ROHS Directive 2011/EU ANNEX II)
- ▲ EN71 Part3: 2012

**台塑鋼® FORMOCON®**  
共聚型聚甲醛樹脂 POLYOXYMETHYLENE (POM)  
*ACETAL COPOLYMER*



**台灣塑膠工業股份有限公司**  
**FORMOSA PLASTICS CORPORATION**

聚丙稀事業部 · POLYPROPELENE DIV.  
公司：台北市105敦化北路201號8樓  
OFFICE: 8F, 201, Tun Hwa N. Road, Taipei, Taiwan, R.O.C.  
TEL: 886-2-27122211 Ext. 8159 FAX: 886-2-27181230  
E-mail: nico1@fpc.com.tw  
abbylee@fpc.com.tw  
工廠：嘉義縣新港鄉中洋村中洋工業區3號POM廠  
**FACTORY:** 3, Chung Yang Industrial Park, Hsin Kang  
Country, Chia Yi Hsiang, Taiwan, R.O.C.  
TEL: 886-5-3772111 Ext. 121~129 FAX: 886-5-3770312



《 點選連結

※本表數據為依上列檢驗方法測得之參考值，僅供客戶選擇品別用途之參考  
 Note: The details given in this data sheet are our standard value but not specification guaranteed.

物性 Typical Properties			FM025	R6	FM090	FM130	FM270	FM450
項目 Properties	單位 Unit	檢驗方法 Test Method	數值 Typical Value	數值 Typical Value	數值 Typical Value	數值 Typical Value	數值 Typical Value	數值 Typical Value
熔融指數 Melt Index	g/10min	ASTM D1238	2.5	6	9	13	27	45
比重 Specific Gravity		ASTM D792	1.41	1.41	1.41	1.41	1.41	1.41
硬度 Rockwell Hardness	M刻度	ASTM D785	78	80	80	80	80	80
抗折強度 Flexural Strength	kgf/cm <sup>2</sup>	ASTM D790	950	950	950	950	950	950
抗折彈性係數 Flexural Modulus	kgf/cm <sup>2</sup>	ASTM D790	26000	26000	26000	26000	26000	26000
拉伸強度 (降伏點) Tensile Strength (at yield point)	kgf/cm <sup>2</sup>	ASTM D638	610	620	620	620	620	620
延伸率(斷裂點) Tensile Elongation (at break point)	%	ASTM D638	75	65	60	55	45	35
衝擊強度(凹側) Izod impact Strength (V-notched)	kgf/cm <sup>2</sup>	ASTM D256	7.6	7.0	6.5	6	5.4	4.5
吸水率 Water Absorption	%	ASTM D570	0.22	0.22	0.22	0.22	0.22	0.22
阻燃性 Flammability		UL94	HB	HB	HB	HB	HB	HB
成型收縮率 (3mmt ,4in圓盤) Mold Shrinkage (3mmt ,4in disk)	%		1.8-2.2	1.8-2.2	1.8-2.2	1.8-2.2	1.8-2.2	1.8-2.2
熱變形溫度 18.6kgf/cm <sup>2</sup> Heat Deflection Temperature 4.6kgf/cm <sup>2</sup>	°C	ASTM D648	110 158	110 158	110 158	110 158	110 158	110 158
線膨脹係數 Linear Expansion Factor	cm/cm°Cx10-5	ASTM D696	8.45	8.45	8.45	8.45	8.45	8.45
熔點 Melting Point	°C	ASTM DSC	165	165	165	165	165	165
VICAT軟化點 Vicat Softing Temp	°C	ASTM D1525	162	162	162	162	162	162
體積電阻率 Volume Resistivity	Ω .cm	ASTM D257	1x10 <sup>14</sup>	1x10 <sup>14</sup>	1x10 <sup>14</sup>	1x10 <sup>14</sup>	1x10 <sup>14</sup>	1x10 <sup>14</sup>
表面電阻率 Surface Resistivity	Ω	ASTM D257	1x10 <sup>16</sup>	1x10 <sup>16</sup>	1x10 <sup>16</sup>	1x10 <sup>16</sup>	1x10 <sup>16</sup>	1x10 <sup>16</sup>
介電常數 Dielectric Constant	50HZ	ISO IEC250	3.8	3.8	3.8	3.8	3.8	3.8
	1KHZ		3.8	3.8	3.8	3.8	3.8	3.8
	1MHZ		3.8	3.8	3.8	3.8	3.8	3.8
絕緣強度 (2mm) Dielectric Breakdown Strength (2mm)	KV/mm	ASTM D149	24	24	24	24	24	24
特性 Features			高黏度 High-viscosity 低模垢 Minimal mold deposit 押出厚斷面射出 Extrusion	標準流動性 Standard-flow 低模垢 Minimal mold deposit 增韌型 High toughness	標準流動性 Standard-flow 低模垢 Minimal mold deposit	中流動性 Medium-flow 低模垢 Minimal mold deposit	高流動性 High-flow 低模垢 Minimal mold deposit	超高流動性 Superhigh-flow 低模垢 Minimal mold deposit
用途 Applications			素材壓出 Extruded rods and sheets 其他壓出品 Other extrusion parts	扣具按扣 Buttons and press-in fasteners 管件及五金 Plumbing and hardware 家庭電器 Household appliances parts 其他射出零件 Other injection parts 齒輪 Gears 電子零件 Electronic parts 汽車零件 Automotive 軸承 Bearing	扣具按扣 Buttons and press-in fasteners 管件及五金 Plumbing and hardware 家庭電器 Household appliances parts 其他射出零件 Other injection parts 齒輪 Gears 電子零件 Electronic parts 汽車零件 Automotive 軸承 Bearing	扣具按扣 Buttons and press-in fasteners 管件及五金 Plumbing and hardware 家庭電器 Household appliances parts 其他射出零件 Other injection parts 拉鍊 Zippers 齒輪 Gears 電子零件 Electronic parts 汽車零件 Automotive 軸承 Bearing	按扣 Press-in fasteners 家庭電器 Household appliances 電子零件 Electronic parts 其他小型機器零件 Other small mechanical parts 拉鍊 Zippers 齒輪 Gears 汽車零件 Automotive	按扣 Press-in fasteners 其他小型機器零件 Other small mechanical parts 家庭電器 Household appliances parts 拉鍊 Zippers 齒輪 Gears 電子零件 Electronic parts 汽車零件 Automotive