

產品認證與許可

台塑公司聚縮醯廠為了提升品質，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#6137、6138、8157、8159)

(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#6137、6138、8157、8159) (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)

▲ SVHC (SVHC Related by ECHA)

▲ RoHS (RoHS Directive 2011/65/EU ANNEX II)

▲ EN71 Part3

▲ W270 (DVGW Technical Standard : Germany)

台塑鋼® FORMOCON®

共聚型聚甲醛樹脂 POLYOXYMETHYLENE (POM)

ACETAL COPOLYMER



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IOS APP



Android APP



http://www.fpc.com.tw/21c/cus/pdf/C0p01.do?dc_btm_0=Func_Detail&docid=510KTLPL5K3

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※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.

台 塑 鋼® FORMOCON®

項目 Properties	單位 Unit	檢驗方法 Test Method	標準級 Standard Grades						耐候性等級 Weather- Resistant Grades					
			FM025/ FM025E	R6	FM090	FM130	FM270	FM450	FM025 UV	R6 UV	FM090 UV	FM130 UV	FM270 UV	FM450 UV
熔融指數 Melt Index	g/10min	ASTM D1238	2.5	6	9	13	27	45	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	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	78	80	80	80	80	80
抗折強度 Flexural Strength	kgf/cm ²	ASTM D790	950	950	950	950	950	950	950	950	950	950	950	950
抗折彈性係數 Flexural Modulus	kgf/cm ²	ASTM D790	26000	26000	26000	26000	26000	26000	26000	26000	26000	26000	26000	26000
拉伸強度 (降伏點) Tensile Strength (at yield point)	kgf/cm ²	ASTM D638	610	620	630	630	620	620	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	75	65	60	55	45	35
衝擊強度(凹側) Izod impact Strength (V-notched)	kgf*cm/cm	ASTM D256	7.6	7.0	6.5	6	5.4	4.5	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	0.22	0.22	0.22	0.22	0.22	0.22
阻燃性 Flammability		UL94	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
成型收縮率 (3mm ² , 4in圓盤) Mold Shrinkage (3mm ² , 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	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 Heat Deflection Temperature	18.6kgf/cm ² 4.6kgf/cm ²	℃ ASTM D648	110 158	110 158	110 158	110 158	110 158	110 158	110 158	110 158	110 158	110 158	110 158	110 158
線膨脹係數 Linear Expansion Factor	cm/cm*℃ x10 ⁻⁵	ASTM D696	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45
熔點 Melting Point	℃	ASTM DSC	165	165	165	165	165	165	165	165	165	165	165	165
VICAT軟化點 Vicat Softing Temp	℃	ASTM D1525	162	162	162	162	162	162	162	162	162	162	162	162
體積電阻率 Volume Resistivity	Ωcm	ASTM D257	1x10 ¹⁴	1x10 ¹⁴	1x10 ¹⁴	1x10 ¹⁴	1x10 ¹⁴	1x10 ¹⁴	1x10 ¹⁴	1x10 ¹⁴	1x10 ¹⁴	1x10 ¹⁴	1x10 ¹⁴	1x10 ¹⁴
表面電阻率 Surface Resistivity	Ω	ASTM D257	1x10 ¹⁵	1x10 ¹⁵	1x10 ¹⁵	1x10 ¹⁵	1x10 ¹⁵	1x10 ¹⁵	1x10 ¹⁵	1x10 ¹⁵	1x10 ¹⁵	1x10 ¹⁵	1x10 ¹⁵	1x10 ¹⁵
介電常數 Dielectric Constant	50HZ	ISO IEC250	3.8	3.8	3.8	3.8	3.8	3.8	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	3.8	3.8	3.8	3.8	3.8	
	1MHZ		3.8	3.8	3.8	3.8	3.8	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	24	24	24	24	24	24
特性 Features			高黏度 High-viscosity	標準增韌 Standard toughness	標準流動 Standard-flow	中流動 Medium-flow	高流動 High-flow	超高流動 Superhigh-flow	高黏度 High-viscosity	標準增韌 Standard toughness	標準流動 Standard-flow	中流動 Medium-flow	高流動 High-flow	超高流動 Superhigh-flow
用途 Applications			FM025 for Injection molding FM025E for Extrusion and injection molding	韌性需求優於FM090 Used in higher toughness than FM090	一般射出用規格 For general molding	流動性需求略高於FM090 Used in higher demand for fluidity than FM090	用於小尺寸產品 Used to produce the small parts	用於小尺寸零件及薄製品 Used to produce the thin or small parts	耐候級可應用於戶外製品・具有良好的耐候性質 Outdoor or other products requiring good weather- resistant properties.					
			扣具 Buttons, 按扣 Press-in fasteners, 管件 Plumbing, 五金 Hardware, 家庭電器 Household appliances parts, 電子零件 Electronic parts, 汽車零件 Automotive , 齒輪 Gears, 軸承 Bearing, 拉鍊 Zippers											