

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 # 6137、6138、8157、8159)
(傳真：886-2-27181230)

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
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◎ 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
- ▲ 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)

CERTIFICATIONS AND APPROVALS

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



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聚縮醛網頁

台 塑 鋼® FORMOCON®

項目 Properties	單位 Unit	檢驗方法 Test Method	標準級 Standard Grades						耐候性級 Weather- Resistant Grades		低模垢級 Low Molding Deposits	低甲醛氣析出級 Low VOC
			FM025	R6	FM090	FM130	FM270	FM450	R6 UV	FM090 UV	FM090 LMD	FM090 LV
熔融指數 Melt Index	g/10min	ISO 1133	2.5	6	9	13	27	45	6	9	9	9
密度 Density	g/cm ³	ISO 1183	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	ISO 2039-2	78	80	80	80	80	80	80	80	80	80
抗折強度 Flexural Strength	MPa	ISO 178	82	86	88	88	90	90	86	88	88	88
抗折彈性係數 Flexural Modulus	MPa	ISO 178	2400	2450	2500	2500	2550	2550	2450	2500	2500	2500
拉伸強度（降伏點） Tensile Strength (at yield point)	MPa	ISO 527-2/1A	60	62	62	62	63	63	62	62	62	62
延伸率(斷裂點) Tensile Elongation (at break point)	%	ISO 527-2/1A	40	38	35	35	30	20	38	35	35	35
簡支樑缺口衝擊強度 Charpy Impact Strength (notched)	KJ/m ²	ISO 179-1, 179-2	8	7	6.5	6	5.5	4.5	7	6.5	6.5	6.5
吸水率 Water Absorption	%	ISO 62	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
阻燃性 Flammability		UL94	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
成型收縮率 Mold Shrinkage	%	ISO 294-4	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 1.80 Mpa	°C	ISO 75-1,-2	100	103	103	102	102	100	103	103	103	103
線膨脹係數 Linear Expansion Factor	×10 ⁻⁵ /°C	ISO 11359-2	12	12	12	11	11	11	12	12	12	12
熔點 Melting Point	°C	ISO 11357-3	165	165	165	165	165	165	165	165	165	165
體積電阻率 Volume Resistivity	Ωcm	IEC 60093	1×10 ¹⁴	1×10 ¹⁴	1×10 ¹⁴	1×10 ¹⁴	1×10 ¹³	1×10 ¹³	1×10 ¹⁴	1×10 ¹⁴	1×10 ¹⁴	1×10 ¹⁴
表面電阻率 Surface Resistivity	Ω	IEC 60093	1×10 ¹⁶	1×10 ¹⁶	1×10 ¹⁶	1×10 ¹⁶	1×10 ¹⁵	1×10 ¹⁵	1×10 ¹⁶	1×10 ¹⁶	1×10 ¹⁶	1×10 ¹⁶
絕緣破壞 度 (3mm) Dielectric Breakdown Strength (3mm)	kV/mm	IEC60243-1	19	19	19	19	19	19	19	19	19	19
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	耐候性佳 Weather- resistant	耐候性佳 Weather- resistant	模垢比FM090低 Less molding deposit than FM090	低甲醛氣析出 Low VOC
用途 Applications			可用於押出及射出成型 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 ptoduce 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.		適用於易產生模垢的加工狀況 Suitable for processing conditions prone to mold deposits	適用於易有瓦斯氣產生的加工條件 Suitable for processing conditions prone to gas generation
			扣具 Buttons, 按扣 Press-in fasteners, 管件 Plumbing, 五金 Hardware, 家用電器 Household appliances parts, 電子零件 Electronic parts, 汽車零件 Automotive, 齒輪Gears, 軸承 Bearing, 拉鏈 Zippers									