

TAIRIREX®

PS



FCFC For Customer For Care



台灣化學纖維股份有限公司
FORMOSA CHEMICALS & FIBRE CORPORATION

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項 目 Property	單 位 Unit	試驗方法 Test Method	試 驗 條 件 Test Condition	通用級聚苯乙烯 General Purpose PS								耐沖聚苯乙烯 High Impact PS				
				GP5000	GP525N	GP5250	GP535N	GP5350	GP535A	GP550N	GP5500	MP6500	HP8250	HP825F	HP835G	HP9450
熔融指數 Melt Flow Index	g/10 min	ASTM D-1238 (ISO 1133)	200℃ × 5kg 49N	10	6.7	6.7	4.5	4.5	4.3	2.6	2.6	7.0	5.5	9.0	3.7	3.0
Izod 衝擊強度 Izod Impact Strength	kg-cm/ cm	ASTM D-256	23℃ , 1/4" , Notche, 有缺口	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.8	8.0	13	12	11	15
	KJ/m²	ISO 180	23℃ , 4mm, Notched, 無缺口	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	5.6	11	10	10.8	12.2
Charpy 衝擊強度 Charpy Impact Strength	KJ/m²	ISO 179	23℃ , 4mm GPPS 無缺口 HIPS 有缺口	8.7	7.4	7.4	10.8	10.8	7.2	9.5	9.5	5.8	8.5	9.6	8.0	9.8
抗張強度 Tensile Strength	kg/cm²	ASTM D-638	23℃ , 5mm/min	440	430	430	450	450	480	510	500	290	240	250	280	250
	Mpa	ISO 527	23℃ , 20mm/min	42	41	41	44	44	43	48	47	30	24	26	28	25
抗張模數 Tensile Modulus	kg/cm²	ASTM D-638	23℃ , 5mm/min	33,000	31,000	31,000	32,000	32,000	35,000	32,000	32,000	24,000	22,000	24,000	22,000	22,000
	Mpa	ISO 527	23℃ , 1mm/min	3,400	3,300	3,300	3,300	3,300	3,300	3,400	3,400	2,600	2,200	2,300	2,400	2,200
伸長率 Tensile Elongation	%	ASTM D-638	23℃ , 5mm/min	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	40	53	56	55	52
		ISO 527	23℃ , 20mm/min	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	27	33	33	38	39
彎曲強度 Flexural Strength	kg/cm²	ASTM D-790	23℃ , 1.2mm/min	820	870	850	890	900	930	1060	1050	560	450	460	550	470
	MPa	ISO 178	23℃ , 2mm/min	72	70	70	76	76	74	84	85	51	41	46	54	44
彎曲模數 Flexural Modulus	kg/cm²	ASTM D-790	23℃ , 1.2mm/min	31,000	32,000	32,000	32,000	32,000	32,000	33,000	34,000	25,000	23,000	21,000	23,000	22,000
	MPa	ISO 178	23℃ , 2mm/min	3,400	3,200	3,200	3,100	3,100	3,100	3,000	3,100	2,400	2,200	2,400	2,300	2,400
熱變形溫度 Heat Deflection Temperature	℃	ASTM D-648	Annealed 80℃ x 2hr, 120℃ /h, 1.8Mpa 1/8"	83	87	86	93	90	89	95	95	91	89	90	89	90
		ISO 75/A	Annealed 80℃ x 2hr, 120℃ /h, 1.8Mpa 4mm	89	91	91	95	95	94	98	98	94	96	96	94	94
衛氏軟化點 Vicat Softening Point	℃	ASTM D-1525	Annealed 80℃ x 2hr 1/8", 10N 50℃ /h	94	95	95	98	98	100	104	104	100	101	100	101	100
		ISO 306	Annealed 80℃ x 2hr, 4mm, 10N50℃ /h	94	95	95	100	100	98	103	103	98	98	99	101	99
殘留單體 Reidual Monomer	ppm max	-	-	700	700	700	700	700	700	700	700	700	700	700	700	700
燃燒性 Flammability	-	UL-94	FILE NO. E162823	1.5-1.7mm HB All Color	1.5-1.7mm HB All Color	1.5-1.7mm HB All Color	1.5-1.7mm HB All Color	1.5-1.7mm HB All Color	1.5-1.7mm HB All Color	1.5-1.7mm HB All Color	1.5-1.7mm HB All Color	1.5-1.7mm HB All Color	0.8mm HB 1.0mm HB 1.5mm HB 3.0mm HB All Color	1.5mm HB 3.0mm HB All Color	1.0mm HB 3.0mm HB All Color	1.5-1.7mm HB All Color
特性 Speciality				高流動性 High flow	一般射出成型 Injection molding	一般射出成型 Injection molding	耐熱性 High heat resistance	耐熱性 High heat resistance	耐熱性 High heat resistance	高分子量， 押出用 High M.W. for extrusion	高分子量， 押出用 High M.W. for extrusion	中耐衝性 Medium impact	高耐衝性、 一般成型用 High impact, Normal flow	高流動性 High flow	高耐衝擊性，高 光澤射出級用 High impact, high gloss injection	超高耐衝性 Super high impact
用途 Application				TRP 攪配、 薄肉射出 TRP blending, Thin sheet injection	食品容器、文 具、玩具、衣架、 燈飾、CD 盒、 化妝品容器 Food containers, Stationery, Toys, Clothing hangers, Lamp decoration, CD, Cosmetic cases	食品容器、文 具、玩具、衣架、 燈飾、CD 盒、 化妝品容器 Food containers, Stationery, Toys, Clothing hangers, Lamp decoration, CD, Cosmetic cases	餐具、燈罩、 晶晶板、玩具 Kitchen ware, Lamp covers, Decorated sheets, Toys	餐具、燈罩、 晶晶板、玩具 Kitchen ware, Lamp covers, Decorated sheets, Toys	餐具、燈罩、 晶晶板、玩具 Kitchen ware, Lamp covers, Decorated sheets, Toys	PSP 板、 OPS、 藥品罐 PSP Sheets, OPS, Medicine containers	PSP 板、 OPS、 藥品罐 PSP Sheets, OPS, Medicine containers	文具、玩具、 家電零件、 衣架、時鐘殼、 FRP 攪配 Stationary, Toys, Parts for home electrical appliances, clothing hangers, Clock housing, FRP blending	家電外殼、電視 機殼、終端機 外殼、電腦主 機面板 Housing for electrical appliances, TV housing, Monitor housing, PC housing	家電外殼、電視 機殼、終端機外 殼、電腦主機面 板 Housing for electrical appliances, TV housing, Monitor housing, PC housing	電視機外殼、 空調外殼 TV housing, Air conditioner housing	HP 押板、 線輪、浮 球、包裝材 HP sheet, Cable reels, Float ball, Packaging



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