

HIGH-IMPACT POLYSTYRENE (HIPS)

TECHNICAL DATA SHEET

項目 Property	單位 Unit	試驗方法 Test Method	試驗條件 Test Condition	測試結果 Test Result
抗張強度 Tensile Strength	kg/cm ² (MPa)	ASTM D-638 (ISO527)	23°C	250 (25)
抗張模數 Tensile Modulus	kg/cm ² *10 ⁴ (MPa)	ASTM D-638 (ISO527)	23°C	2.2 (2160)
伸長率 Tensile Elongation	%	ASTM D-638 (ISO527)	23°C	52
彎曲強度 Flexural Strength	kg/cm ² (MPa)	ASTM D-790 (ISO178)	23°C	470 (46)
彎曲模數 Flexural Modulus	kg/cm ² *10 ⁴ (MPa)	ASTM D-790 (ISO178)	23°C	2.2 (2160)
Izod 衝擊強度 Izod Impact Strength	kg-cm/cm (J/m)	ASTM D-256 (ISO R180)	23°C 1/4" 厚	15 (147)
衛氏軟化點 Vicat Softening Temperature	°C	ASTM D-1525 (ISO306B)	Annealed 80°C×2Hr 1/8" 厚	100
熱變形溫度 Heat Deflection Temperature	°C	ASTM D-648 (ISO 75/A)	Annealed 80°C×2Hr 1/8" 厚	90
熔融指數 Melt Flow Index	g/10 min	ASTM D-1238 (ISO1133)	200°C×5Kg (49N)	3.0
殘留單體 Residual Monomer	ppm max			700
比重 Specific Gravity		ASTM D-792 (ISO1183)	23°C/23°C	1.04
燃燒性 Flammability		UL-94	FILE NO. E162823	1.5 – 1.7mm HB All Color