

# HIPS KUMHO HI-425

## Typical Properties 物性表

各項物性 / 單位 Properties / Unit	測試方法 Test Method	測試條件 Condition	HIPS HI-425
Tensile Strength 拉伸強度 / kg/cm <sup>2</sup> (psi)	ASTM D-638	50mm/min	260 (3,692)
Elongation 伸長率 / %	ASTM D-638	50mm/min	40
Flexural Strength 彎曲強度 / kg/cm <sup>2</sup> (psi)	ASTM D-790	23°C	300 (4,260)
Flexural Modulus 彎曲模量 / kg/cm <sup>2</sup> (psi)	ASTM D-790	23°C	17,000 (241,400)
Rockwell Hardness 洛氏硬度	ASTM D-785	L Scale	60
IZOD Impact Strength 埃卓衝擊強度 / kg.cm/cm (ft.lb/in)	ASTM D-256	3.2mm, Notched, 23°C (73°F)	9.0 (1.67)
Heat Distortion Temp 熱變形溫度 / °C (°F)	ASTM D-648	18.6kg/cm (264psi) Unannealed	77 (168)
Vicat Softening Temp 維卡特軟化點 / °C (°F)	ASTM D-1525		97 (211)
Melt Flow Index 熔融指數 / g/10min	ASTM D-1238	200°C /5kg	9.0
Molding Shrinkage 尺寸收縮率 / %	ASTM D-955		0.3-0.6
Specific Gravity 比重	ASTM D-792		1.04
Water Absorbtion 吸水率 / %	ASTM D-570	24hr, Immersion water	0.05
Flammability 阻燃性	UL File No. E654224	1/16" (1.6mm)	HB
Characteristics 特性	High Impact Strength / General Purpose		
Applications 用途	Office equipment, Electronic home appliances, Toys, Kitchen utensils, Miscellaneous goods, Leisure goods		