

聚甲基丙烯酸甲酯 (PMMA)
Polymethyl methacrylate (PMMA)

型號 Grade					VH
項目 Properties	試驗方法 Terms method	試驗條件 Terms condition	單位 Units		
物理性能	Physical Properties				
比重	Specific gravity	JIS K7112 ISO 1183		g/cm ³	1.19
全光透光率	Total light transmittance	ISO 13468	3mm	%	92.5
薄霧	Haze	ISO 14782	3mm	%	0.3
折射率	Refractive index	ASTMD 542	nd	-	1.49
吸水率	water adsorption	ISO62	24hr	%	0.3
熱性能	Thermal Properties				
比熱	Specific heat	JIS K7123		J/(Gc)	1.5
線性熱膨脹系數	Coefficient of linear expansion	ASTMD 696		1/C	6×10 ⁻⁵
導熱系數	Thermal conductivity	ASTMC 177		W/(Mc)	0.2
負荷撓曲溫度	Deflection temperature under load	ISO 75	1.8MPa	C	100
維卡軟化溫度	Vicat softening temperature	ISO 306	50N	C	107
熔體流動速率	Melt flow rate	ISO 1133	230C,37.3N	g/10min	2
螺旋流 (厚度2毫米)	Spiral flow(Thickness 2mm)	MRC method	230C	mm	130
			230C	mm	220
機械性能	Mechanical Properties				
拉伸強度	Tensile strength	ISO 527	1A/5	Mpa	77
拉伸伸長率	Tensile elongation		1A/5	%	6
彈性模量	Modulus of Elasticity		1A/1	Gpa	3.3
撓曲強度	Flexural strength	ISO 178		Mpa	140
撓曲模量	Flexural modulus			Gpa	3.3
沖擊強度	Izod impact strength	ISO 180	1A	KJ/m ²	2.1
簡支梁沖擊強度	Charpy impact strength	ISO 179	11eU unnotched	KJ/m ²	20
			1eA Vnotched	KJ/m ²	1.4
洛氏硬度	Rockwell hardness	ISO 2039	Mscale	-	101
電性能	Electrical Properties				
表面電阻系數	Surface resistivity	JIS K6911		Ω	> 10 ¹⁶
體積電阻系數	Volume resistivity	JIS K6911		Ω · m	> 10 ¹³
電介質強度	Dielectric strength	JIS K6911	4kV/sec	MV/m	20
介電常數	Dielectric constant	JIS K6911	60Hz	-	3.7
功率因數	Power factor	JIS K6911	60Hz	-	0.05
耐電弧性	Arc resistance	JIS K6911		-	no track
相比起痕指數	Mold shrinkage	MRC method		%	0.2-0.6

本物性表載數據是基于特定試驗方法下取得的代表數據

The listed properties are portrayed as general information only and are not product specifications.

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