

MAYRENE® MW222
High Impact Polystyrene (HIPS)

Physical Properties	Method	Testing Condition	Unit	Typical Value
Specific Gravity	ASTM D-792	-	g/cm ³	1.04
Water Absorption	ASTM D-570	23 °C	%	0.10

Mechanical Properties

Tensile Strength	ASTM D 638	-	kg/cm ²	300
Tensile Elongation	ASTM D 638	-	%	35
Flexural Modulus	ASTM D 790	-	kg/cm ²	22000
Flexural Strength	ASTM D 790	-	kg/cm ²	500
Izod Impact	ASTM D 256	V-notched, 1/8"	kg.cm/cm	7

Thermal Properties

Melt Flow Index	ASTM D 1238	-	g/10min	6
Heat Distortion Temperature	ASTM D-648	18.6kg/cm ²	°C	83
Flammability	UL-94	-	-	HB

Processing Properties

Drying Hour	-	-	Hr	2-3
Drying Temperature	-	-	°C	80
Melt Temperature	-	-	°C	190-230

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