



**MAYRENE® MW222 U**  
**High Impact Polystyrene ( HIPS )**  
 Metro Wealth Under UL Register File No: ( E 306925 )



Physical Properties	Method	Testing Condition	Unit	Typical Value
Specific Gravity	ASTM D-792	-	g/cm <sup>3</sup>	1.04 – 1.06
Water Absorption	ASTM D-570	23 °C	%	0.10 – 0.13

### Mechanical Properties

Tensile Strength	ASTM D 638	-	kg/cm <sup>2</sup>	190-260
Tensile Elongation	ASTM D 638	-	%	32-44
Flexural Modulus	ASTM D 790	-	kg/cm <sup>2</sup>	19000-26000
Flexural Strength	ASTM D 790	-	kg/cm <sup>2</sup>	360-480
Izod Impact	ASTM D 256	V-notched, 1/8"	kg.cm/cm	6-9

### Thermal Properties

Melt Flow Index	ASTM D 1238	-	g/10min	4-8
Heat Distortion Temperature	ASTM D-648	4.6kg/cm <sup>2</sup>	°C	75.8-83.8
Flammability	UL-94	-	-	HB

### Processing Properties

Drying Hour	-	-	Hr	2-3
Drying Temperature	-	-	°C	80-90
Melt Temperature	-	-	°C	190-230

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