



**MAYRENE® MW220 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>	1.16 – 1.18
Water Absorption	ASTM D-570	23 °C	%	0.04 – 0.06

### Mechanical Properties

Tensile Strength	ASTM D 638	-	kg/cm <sup>2</sup>	180-260
Tensile Elongation	ASTM D 638	-	%	32-44
Flexural Modulus	ASTM D 790	-	kg/cm <sup>2</sup>	20000-26000
Flexural Strength	ASTM D 790	-	kg/cm <sup>2</sup>	400-550
Izod Impact	ASTM D 256	V-notched, 1/8"	kg.cm/cm	5-8

### Thermal Properties

Melt Flow Index	ASTM D 1238	-	g/10min	8-14
Heat Distortion Temperature	ASTM D-648	455 kPa	°C	80-88
Flammability	UL-94	-	-	V2

### Processing Properties

Drying Hour	-	-	Hr	2-3
Drying Temperature	-	-	°C	80-85
Melt Temperature	-	-	°C	190-230

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