



MAYRENE® MW210 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 ³	1.16 – 1.18
Water Absorption	ASTM D-570	23 °C	%	0.04 – 0.06

Mechanical Properties

Tensile Strength	ASTM D 638	-	kg/cm ²	180-260
Tensile Elongation	ASTM D 638	-	%	25-40
Flexural Modulus	ASTM D 790	-	kg/cm ²	20000-26000
Flexural Strength	ASTM D 790	-	kg/cm ²	360-480
Izod Impact	ASTM D 256	V-notched, 1/8"	kg.cm/cm	5-8

Thermal Properties

Melt Flow Index	ASTM D 1238	-	g/10min	10-15
Heat Distortion Temperature	ASTM D-648	455 kPa	°C	75-85
Flammability	UL-94	-	-	VI

Remark: Thickness 2.0mm & 3.0 mm.

Processing Properties

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

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