

**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          |
| Water Absorption    | ASTM D-570 | 23°C              | %                 | 0.10          |

**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      |
| Melt Temperature   | - | - | °C | 190-230 |

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