

**IH830U7**

PMMA

LX MMA Corp.

| <b>Processing/Physical Characteristics</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|--|--------------|-------------|----------------------|
| <b>ASTM Data</b>                           |              |             |                      |
| Melt Flow Index, MFI                       | <b>2.2</b>   | g/10min     | ASTM D 1238          |
| Temperature                                | <b>230</b>   | °C          | -                    |
| Load                                       | <b>3.8</b>   | kg          | -                    |
| Mold Shrinkage, MD                         | <b>0.006</b> | mm/mm       | ASTM D 955           |

| <b>Mechanical properties</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|------------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>             |              |             |                      |
| Tensile Strength             | <b>75</b>    | MPa         | ASTM D 638           |
| Flexural Modulus             | <b>3349</b>  | MPa         | ASTM D 790           |
| Flexural Strength            | <b>139</b>   | MPa         | ASTM D 790           |
| Rockwell Hardness            | <b>M 98</b>  | -           | ASTM D 785           |
| Izod Impact notched, 1/8 in  | <b>14.7</b>  | J/m         | ASTM D 256           |

| <b>Thermal properties</b>            | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|--------------------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>                     |              |             |                      |
| UL 94 Flame rating                   | <b>HB</b>    | -           | UL 94                |
| Coefficient of Thermal Expansion, MD | <b>60</b>    | E-6/K       | ASTM D 696           |
| DTUL @ 264 psi                       | <b>94</b>    | °C          | ASTM D 648           |
| Vicat Temperature                    | <b>113</b>   | °C          | ASTM D 1525          |

| <b>Electrical properties</b>    | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|---------------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>                |              |             |                      |
| Dielectric Strength, Short Time | <b>20</b>    | kV/mm       | ASTM D 149           |
| Dissipation Factor, 60 Hz       | <b>0.05</b>  | -           | ASTM D 150           |
| Dielectric Constant, 60 Hz      | <b>4</b>     | -           | ASTM D 150           |
| Volume Resistivity              | <b>10</b>    | Ohm*cm      | ASTM D 257           |

| <b>Optical properties</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|---------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>          |              |             |                      |
| Haze                      | <b>0.5</b>   | %           | ASTM D 1003          |
| Light Transmittance       | <b>93</b>    | %           | ASTM D 1003          |
| Index of Refraction       | <b>1.49</b>  | -           | ASTM D 542           |

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Water Absorption, 24hr  | <b>0.3</b>   | %                 | ASTM D 570           |
| Density                 | <b>1180</b>  | kg/m <sup>3</sup> | ASTM D 792           |

**Characteristics****Special Characteristics**

Heat stabilized or stable to heat

**Regional Availability**

North America, Europe, Asia Pacific