

## Lucite International XL Sanitary Ware Acrylic Sheet

Category : Polymer , Thermoplastic , Acrylic (PMMA)

### Material Notes:

Lucite® XL continuous-cast cross-linked acrylic sheet is specially formulated for deep-draw thermoforming. It is used primarily for production of spas. Benefits: Smooth surface; Infinite colors and effects; Hardwearing; Exceptional quality; 100% recyclable; Enhanced functionality. Information provided by Lucite International

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lucite-International-XL-Sanitary-Ware-Acrylic-Sheet.php](http://www.lookpolymers.com/polymer_Lucite-International-XL-Sanitary-Ware-Acrylic-Sheet.php)

| Physical Properties   | Metric         | English                   | Comments  |
|-----------------------|----------------|---------------------------|-----------|
| Density               | 1.19 g/cc      | 0.0430 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption      | 0.25 %         | 0.25 %                    | ASTM D570 |
| Linear Mold Shrinkage | <= 0.025 cm/cm | <= 0.025 in/in            |           |

| Mechanical Properties      | Metric          | English          | Comments                            |
|----------------------------|-----------------|------------------|-------------------------------------|
| Hardness, Rockwell M       | 95              | 95               | ASTM D785 Procedure A               |
| Tensile Strength           | 62.0 - 69.0 MPa | 8990 - 10000 psi | specimen type 1, 5 mm/mn; ASTM D638 |
| Elongation at Break        | 4.0 - 5.0 %     | 4.0 - 5.0 %      |                                     |
| Modulus of Elasticity      | 3.172 GPa       | 460.1 ksi        |                                     |
| Flexural Strength          | 110.3 MPa       | 16000 psi        | ASTM D790 (Method 1, Procedure A)   |
| Compressive Yield Strength | 111 MPa         | 16100 psi        | ASTM D695                           |
| Shear Strength             | 59.6 MPa        | 8640 psi         |                                     |
| Izod Impact, Notched       | 0.160 J/cm      | 0.300 ft-lb/in   | ASTM D256 method C                  |

| Thermal Properties                          | Metric         | English                 | Comments     |
|---------------------------------------------|----------------|-------------------------|--------------|
| CTE, linear                                 | 70.0 Åµm/m-Å°C | 38.9 Åµin/in-Å°F        | ASTM D696    |
| Specific Heat Capacity                      | 1.47 J/g-Å°C   | 0.351 BTU/lb-Å°F        | ASTM C351    |
| Thermal Conductivity                        | 0.209 W/m-K    | 1.45 BTU-in/hr-ftÅ²-Å°F | ASTM C177-76 |
| Maximum Service Temperature, Air            | 80.0 Å°C       | 176 Å°F                 |              |
| Deflection Temperature at 1.8 MPa (264 psi) | 86.0 Å°C       | 187 Å°F                 | ASTM D648    |
| Flammability, UL94                          |                |                         |              |

| Thermal Properties     | HB<br>Metric                                | HB<br>English                            | Comments                   |
|------------------------|---------------------------------------------|------------------------------------------|----------------------------|
| Electrical Properties  | Metric                                      | English                                  | Comments                   |
| Volume Resistivity     | 1.00e+15 ohm-cm                             | 1.00e+15 ohm-cm                          | ASTM D257                  |
| Surface Resistance     | <= 1.00e+14 ohm<br>@Temperature 28.0<br>Â°C | <= 1.00e+14 ohm<br>@Temperature 82.4 Â°F | 75% RH; ASTM D257          |
| Dielectric Constant    | 3.0<br>@# of Cycles 1000                    | 3.0<br>@# of Cycles 1000                 | ASTM D150                  |
|                        | 3.0<br>@# of Cycles 1.00e+6                 | 3.0<br>@# of Cycles 1.00e+6              | ASTM D150                  |
|                        | 4.0<br>@# of Cycles 60.0                    | 4.0<br>@# of Cycles 60.0                 | ASTM D150                  |
| Dielectric Strength    | 20.0 kV/mm                                  | 508 kV/in                                | short time test; ASTM D149 |
| Processing Properties  | Metric                                      | English                                  | Comments                   |
| Processing Temperature | 170 - 190 Â°C                               | 338 - 374 Â°F                            | thermoforming temperature  |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China