

## Plaskolite Optix® DA Digital Acrylic Sheet

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Optical Sheet

### Material Notes:

Designed to provide optimal adhesion of UV curing inks without adhesion promoters, OPTIX DA is a continuously processed acrylic sheet specially formulated product for printing. OPTIX DA provides superior strength and is available in a variety of sizes and thicknesses. Data provided by the manufacturer, Plaskolite, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plaskolite-Optix-DA-Digital-Acrylic-Sheet.php](http://www.lookpolymers.com/polymer_Plaskolite-Optix-DA-Digital-Acrylic-Sheet.php)

| Physical Properties | Metric    | English                   | Comments  |
|---------------------|-----------|---------------------------|-----------|
| Density             | 1.19 g/cc | 0.0430 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption    | 0.40 %    | 0.40 %                    | ASTM D570 |

| Mechanical Properties   | Metric                 | English                    | Comments                |
|-------------------------|------------------------|----------------------------|-------------------------|
| Hardness, Rockwell M    | 95                     | 95                         | ASTM D785               |
| Tensile Strength        | 76.05 MPa              | 11030 psi                  | ASTM D638               |
| Elongation at Break     | 5.8 %                  | 5.8 %                      | ASTM D638               |
| Tensile Modulus         | 3.38 GPa               | 490 ksi                    | ASTM D638               |
| Flexural Strength       | 117 MPa                | 17000 psi                  | ASTM D790               |
| Flexural Modulus        | 3.38 GPa               | 490 ksi                    | ASTM D790               |
| Izod Impact, Notched    | 0.149 J/cm             | 0.280 ft-lb/in             | Milled Notch; ASTM D256 |
|                         | 0.214 J/cm             | 0.400 ft-lb/in             | Molded Notch; ASTM D256 |
| Tensile Impact Strength | 42.0 kJ/m <sup>2</sup> | 20.0 ft-lb/in <sup>2</sup> | ASTM D1822              |

| Thermal Properties                          | Metric                        | English                             | Comments   |
|---------------------------------------------|-------------------------------|-------------------------------------|------------|
| CTE, linear                                 | 54.0 µm/m-°C                  | 30.0 µin/in-°F                      | ASTM D696  |
|                                             | @Temperature -34.4 - -1.11 °C | @Temperature -30.0 - 30.0 °F        |            |
| Thermal Conductivity                        | 0.130 W/m-K                   | 0.900 BTU-in/hr-ft <sup>2</sup> -°F | ASTM C177  |
| Melting Point                               | 149 - 157 °C                  | 300 - 315 °F                        |            |
| Maximum Service Temperature, Air            | 76.7 - 87.8 °C                | 170 - 190 °F                        | Continuous |
| Deflection Temperature at 0.46 MPa (66 psi) | 97.2 °C                       | 207 °F                              | ASTM D648  |

| Thermal Properties<br><small>Deflection Temperature at 1.8 MPa<br/>(264 psi)</small> | Metric        | English      | Comments  |
|--------------------------------------------------------------------------------------|---------------|--------------|-----------|
| Softening Point                                                                      | 98.9 - 104 °C | 210 - 220 °F |           |
| Flame Spread                                                                         | 25.88 mm/min  | 1.019 in/min | ASTM D635 |
| Flame Spread Index                                                                   | 115           | 115          | ASTM E84  |
| Shrinkage                                                                            | <= 5.0 %      | <= 5.0 %     | ASTM D702 |

| Optical Properties    | Metric | English | Comments   |
|-----------------------|--------|---------|------------|
| Refractive Index      | 1.49   | 1.49    | ASTM D542  |
| Haze                  | 2.0 %  | 2.0 %   | ASTM D1003 |
| Transmission, Visible | 92 %   | 92 %    | ASTM D1003 |

| Descriptive Properties    | Value | Comments   |
|---------------------------|-------|------------|
| Flammability              | B2    |            |
| Self Ignition Temperature | 833°F | ASTM D1929 |
| Smoke Developed Index     | 550   | ASTM E84   |

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