

Plaskolite Optix® SG Sign Grade Acrylic Sheet

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

Material Notes:

Available in unlimited lengths - no seams in finished products. Data provided by the manufacturer, Plaskolite, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-Optix-SG-Sign-Grade-Acrylic-Sheet.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|---------------------------|-----------|
| Density | 1.19 g/cc | 0.0430 lb/in ³ | ASTM D792 |
| Water Absorption | 0.30 % | 0.30 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0020 - 0.0060 cm/cm | 0.0020 - 0.0060 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------------------------------|--|--|
| Hardness, Rockwell M | 96 | 96 | Method A; ASTM D785 |
| Tensile Strength, Yield | 72.0 MPa | 10400 psi | ASTM D638 |
| Tensile Modulus | 3.00 GPa | 435 ksi | ASTM D638 |
| Flexural Yield Strength | 110 MPa | 16000 psi | ASTM D790 |
| Izod Impact, Notched | 0.400 J/cm | 0.749 ft-lb/in | ASTM D256 |
| | 0.200 J/cm @Temperature -18.0 °C | 0.375 ft-lb/in @Temperature -0.400 °F | ASTM D256 |
| Gardner Impact | 0.500 J | 0.369 ft-lb | reported as J/cm; ASTM D3029-GB, unpainted |

| Thermal Properties | Metric | English | Comments |
|---|--|--|---------------------|
| CTE, linear | 54.0 μm/m-°C @Temperature -18.0 - 38.0 °C | 30.0 μin/in-°F @Temperature -0.400 - 100 °F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 98.0 °C | 208 °F | annealed; ASTM D648 |

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

| Processing Properties | Metric | English | Comments |
|------------------------|--------|---------|--|
| Processing Temperature | 160 °C | 320 °F | Optimal Thermoforming temperature for sheet 0.25-1.0 cm (0.10-0.39 in) |

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