



## Optix® CA-81 FDA

Plaskolite, Inc. - Polymethyl Methacrylate Acrylic

Sunday, November 3, 2019

### General Information

#### General

|                 |                      |                 |  |
|-----------------|----------------------|-----------------|--|
| Material Status | • Commercial: Active |                 |  |
| Availability    | • Europe             | • North America |  |

### ASTM & ISO Properties <sup>1</sup>

| Physical                                                 | Nominal Value    | Unit     | Test Method |
|----------------------------------------------------------|------------------|----------|-------------|
| Melt Mass-Flow Rate                                      | 2.2              | g/10 min | ASTM D1238  |
| Molding Shrinkage - Flow                                 | 2.0E-3 to 6.0E-3 | in/in    | ASTM D955   |
| Mechanical                                               | Nominal Value    | Unit     | Test Method |
| Tensile Modulus                                          | 500000           | psi      | ASTM D638   |
| Tensile Strength                                         | 9700             | psi      | ASTM D638   |
| Tensile Elongation (Break)                               | 4.0              | %        | ASTM D638   |
| Flexural Strength                                        | 16100            | psi      | ASTM D790   |
| Impact                                                   | Nominal Value    | Unit     | Test Method |
| Notched Izod Impact                                      | 0.35             | ft-lb/in | ASTM D256   |
| Gardner Impact <sup>2</sup> (0.125 in)                   | 2.00             | in-lb    | ASTM D5420  |
| Thermal                                                  | Nominal Value    | Unit     | Test Method |
| Deflection Temperature Under Load<br>264 psi, Unannealed | 208              | °F       | ASTM D648   |
| Vicat Softening Temperature                              | 225              | °F       | ASTM D1525  |
| CLTE - Flow (-22 to 86°F)                                | 3.3E-5           | in/in/°F | ASTM D696   |

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Geometry GB