

# Pro-Mirror™

Optical Grade Flame Retardant Polycarbonate Mirror with Abrasion Resistant Hard Coating.  
Stock in 0.080" and 0.125" clear.

## Applications

Mirrors - lavatories, galley, seating fixtures, VIP completion applications.

## Material Class

A-A-59502 Classification  
Type II Class 1

## Colors

Clear, Bronze 5184,  
Grey 7122 only upon request

## PROPERTIES

### TEST METHOD

### VALUE

### UNITS

### Physical Properties

|                                |            |     |   |
|--------------------------------|------------|-----|---|
| Specific Gravity               | ASTM D 792 | 1.2 | - |
| Water Absorption 73.4 F, 24 hr | ASTM D 570 | 0.1 | % |

### Mechanical Properties

|                      |            |        |           |
|----------------------|------------|--------|-----------|
| Tensile Strength     | ASTM D 638 | 9717   | psi       |
| Elongation           | ASTM D 638 | 73     | %         |
| Flexural Strength    | ASTM D 790 | 14000  | psi       |
| Tensile Modules      | ASTM D 790 | 327785 | psi       |
| Izod Impact (@.125") | ASTM D 256 | 18.9   | ft-lbs/in |
| Rockwell Hardness    | ASTM D 785 | 122    | R-Scale   |

### Optical Properties

## DEFECTS

### DEFECT SIZE

### MAXIMUM PER SQUARE FOOT

### Defect Properties

|                         |                  |   |
|-------------------------|------------------|---|
| Pinholes, pits, dimples | .030"-.039"      | 0 |
|                         | .020"-.029"      | 1 |
|                         | .010"-.019"      | 5 |
| Scratches/Fibers        | .250" > (length) | 0 |
|                         | .250" < (length) | 1 |

## Inspection Criteria

Professional Plastics' inspection criteria to identify defects is to be inspected as follows:  
Pro-Mirror is to be vertically inspected at a 90 degree angle, from a distance of 24". Pro-Mirror is to be inspected in 12" square area segments, with a maximum of 3 seconds per segment area inspection.

## FLAMMABILITY

### MAXIMUM REQUIREMENTS

### RESULTS

### Flammability-FAR 25.853(a) Appendix F(a)(F)(i)

*Material results for 0.118"*

|                      |                |            |
|----------------------|----------------|------------|
| Self Extinguish Time | 15 seconds max | 12 seconds |
| Burn Length          | 6"             | 0.20"      |
| Average Drippings    | 3 seconds      | 0 seconds  |

*Material also passes FAR 25.853(a) Appendix F(a)(1)(ii), 12 second vertical burn test*