

# Skyrol® SH71E

Polyethylene Terephthalate

SKC Inc.

## Message:

Skyrol® SH71E is an optically clear polyester film with a smooth surface, high gloss, and good dimensional stability. SH71E is slip-treated on one side for good handling characteristics.

| General Information                    |                            |                   |                 |
|----------------------------------------|----------------------------|-------------------|-----------------|
| UL YellowCard                          | E74359-249671              |                   |                 |
| Additive                               | Slip                       |                   |                 |
| Features                               | Good Dimensional Stability |                   |                 |
|                                        | Good Surface Finish        |                   |                 |
|                                        | High Gloss                 |                   |                 |
|                                        | Opticals                   |                   |                 |
|                                        | Slip                       |                   |                 |
| Uses                                   | Film                       |                   |                 |
| Appearance                             | Opaque                     |                   |                 |
| Forms                                  | Film                       |                   |                 |
| Physical                               | Nominal Value              | Unit              | Test Method     |
| Density <sup>1</sup>                   | 1.40                       | g/cm <sup>3</sup> | ASTM D1505      |
| Molding Shrinkage                      |                            |                   | Internal Method |
| Flow : 150°C, 30 min, 0.0500 mm        | 1.1                        | %                 |                 |
| Flow : 150°C, 30 min, 0.0950 mm        | 1.0                        | %                 |                 |
| Across Flow : 150°C, 30 min, 0.0500 mm | 0.090                      | %                 |                 |
| Across Flow : 150°C, 30 min, 0.0950 mm | 0.90                       | %                 |                 |
| Surface Tension (50.0 µm)              | 49                         | mN/m              | ASTM D2578      |
| Mechanical                             | Nominal Value              | Unit              | Test Method     |
| Coefficient of Friction                |                            |                   | ASTM D1894      |
| vs. Itself - Dynamic <sup>2</sup>      | 0.40                       |                   |                 |
| vs. Itself - Dynamic <sup>3</sup>      | 0.40                       |                   |                 |
| vs. Itself - Static <sup>4</sup>       | 0.40                       |                   |                 |
| vs. Itself - Static <sup>5</sup>       | 0.50                       |                   |                 |
| Films                                  | Nominal Value              | Unit              | Test Method     |
| Tensile Strength                       |                            |                   | ASTM D882       |
| MD : Yield,50 µm                       | 200                        | MPa               |                 |
| MD : Yield,95 µm                       | 193                        | MPa               |                 |
| TD : Yield,50 µm                       | 221                        | MPa               |                 |
| TD : Yield,95 µm                       | 207                        | MPa               |                 |
| Tensile Elongation                     |                            |                   | ASTM D882       |

| MD : Break, 50 μm | 160           | %    |             |
|-------------------|---------------|------|-------------|
| MD : Break, 95 μm | 180           | %    |             |
| TD : Break, 50 μm | 130           | %    |             |
| TD : Break, 95 μm | 140           | %    |             |
| Optical           | Nominal Value | Unit | Test Method |
| Gardner Gloss     |               |      | ASTM D523   |
| 50.0 μm           | 191           |      |             |
| 95.0 μm           | 191           |      |             |
| Transmittance     |               |      | ASTM D1003  |
| 50.0 μm           | 90.0          | %    |             |
| 95.0 μm           | 89.0          | %    |             |
| Haze              |               |      | ASTM D1003  |
| 50.0 μm           | 0.80          | %    |             |
| 95.0 μm           | 1.2           | %    |             |
| NOTE              |               |      |             |
| 1.                | 50 μm         |      |             |
| 2.                | 50 μm         |      |             |
| 3.                | 95 μm         |      |             |
| 4.                | 50 μm         |      |             |
| 5.                | 95 μm         |      |             |

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