

# OP45

## Finish Blocking Pad for Super Hydrophobic Lens Coating

**Saint-Gobain® Norbond®** OP45 is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and is a new generation blocking pad intended specifically to bond to the latest generation of low surface energy super hydrophobic coatings. Based on the proven design of the highly successful OP Series, OP45 improves on this with the incorporation of a unique adhesive system engineered specifically to perform on the latest generation lens coatings. Good quick-stick, outstanding shear performance and easy release make this the ideal product for single-step edging.

**Norbond** OP45 is specially intended to provide the following features:

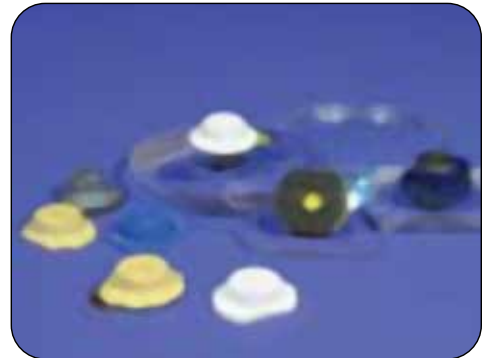
- Microcellular polyurethane foam tape core provides good surface conformability and resists torque forces
- The adhesive for the lens surface is formulated to adhere to a wide range of the latest super hydrophobic coatings
- The adhesive system for the lens surface is identified to ensure error-free application
- Available in a wide range of die-cut shapes and sizes
- Suitable for a wide range of block types and edging equipment

### Available Sizes

Standard thickness: 0.031 in.

Master roll size: 54 in. (1372 mm) width.

Length varies with thickness. Slit rolls also available.



### APPLICATIONS

- Blocking pads for optical lens edging

**Norbond OP45 – Properties**

(Formerly known as SecurEdge)  
 Performance tests are run using standard test procedures.  
 The values presented are typical values and should not be used for specification purposes.

| Property  | Typical Value |
|---|---------------|
| Density: lb/ft <sup>3</sup> (kg/m <sup>3</sup> )                            | 33 (530)      |
| Dynamic Shear Adhesion: 20 min. dwell<br>Stainless steel overlap: psi (kPa) | 90 (620)      |
| 90° Peel Adhesion: coated lens lbs/in. (N/cm)                               | 1 (1.74)      |

**Norbond OP45 – Standard Roll Sizes**

| Product No. | Thickness in. (mm) | Length ft. (m) |
|-------------|--------------------|----------------|
| OP5C        | .031 (.8)          | 216 (65)       |
| OP5C        | .031 (.8)          | 432 (131)      |

**Liners**

A white paper liner is standard.

**Important Instructions**

- Because **Saint-Gobain** cannot anticipate or control every potential application, we strongly recommend testing of this product under individual application conditions prior to commercial use.
- Surfaces must be clean and free of oil, grease, moisture, dust and dirt. Isopropyl alcohol is good for cleaning the surface.
- Apply a uniform pressure of 15 psi (103 kPa) to promote good contact between the material to be bonded and the tape. The application temperature should be between 60°F and 125°F (16°C to 52°C). It is not recommended to apply these tapes at temperatures below 60°F (16°C), as the adhesive does not flow in this condition and can result in poor bonding.
- Recommended service temperature is between -40°F to 200°F (-40°C to 93°C).
- The adhesion between the substrate and the tape increases with time, typically reaching final bond strength in 72 hours. Heating the product above 105°F (40°C) will accelerate the adhesion process.

**Shelf Life**

12 months after the date of sale when stored in original packaging at temperatures up to 70°F (21°C) and 50% relative humidity.

**IMPORTANT:** It is the user’s responsibility to ensure the suitability and safety of Saint-Gobain products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Saint-Gobain assumes no responsibility for any product failures that occur due to your actions or inactions, including your use, design, fabrication or application of the products into which the materials are incorporated.

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