

# Forprene® 6E1001A85

Thermoplastic Vulcanizate

SO.F.TER. SPA

## Message:

Forprene® 6E1001A85 is a thermoplastic vulcanized rubber (TPV) material. This product is available in North America, Latin America or Europe. The processing method is extrusion or injection molding.

Forprene® The main features of 6E1001A85 are:

flame retardant/rated flame

Comply with REACH standard

Typical application areas include:

industrial applications

building applications

Automotive Industry

| General Information                        |                                 |                   |             |
|--------------------------------------------|---------------------------------|-------------------|-------------|
| Uses                                       | Industrial application          |                   |             |
|                                            | Architectural application field |                   |             |
|                                            | Application in Automobile Field |                   |             |
| Agency Ratings                             | EC 1907/2006 (REACH)            |                   |             |
| Appearance                                 | Natural color                   |                   |             |
| Processing Method                          | Extrusion                       |                   |             |
|                                            | Injection molding               |                   |             |
| Physical                                   | Nominal Value                   | Unit              | Test Method |
| Specific Gravity                           | 1.25                            | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                                   | Nominal Value                   | Unit              | Test Method |
| Durometer Hardness (Shore A, 15 sec)       | 87                              |                   | ASTM D2240  |
| Elastomers                                 | Nominal Value                   | Unit              | Test Method |
| Tensile Set                                | 26                              | %                 | ASTM D412   |
| Tensile Stress <sup>1</sup> (100% Strain)  | 3.40                            | MPa               | ASTM D412   |
| Tensile Strength <sup>2</sup>              | 6.80                            | MPa               | ASTM D412   |
| Tensile Elongation <sup>3</sup> (Break)    | 510                             | %                 | ASTM D412   |
| Tear Strength <sup>4</sup>                 | 30.0                            | kN/m              | ASTM D624   |
| Compression Set <sup>5</sup> (70°C, 22 hr) | 49                              | %                 | ASTM D395B  |
| Flammability                               | Nominal Value                   | Unit              | Test Method |
| Flame Rating                               |                                 |                   | UL 94       |
| 1.60 mm                                    | V-0                             |                   | UL 94       |
| 3.20 mm                                    | V-0                             |                   | UL 94       |
| Oxygen Index                               | 24                              | %                 | ASTM D2863  |
| Injection                                  | Nominal Value                   | Unit              |             |
| Drying Temperature                         | 80.0                            | °C                |             |
| Drying Time                                | 3.0                             | hr                |             |

|                    |             |    |
|--------------------|-------------|----|
| Rear Temperature   | 170         | °C |
| Middle Temperature | 180         | °C |
| Front Temperature  | 185         | °C |
| Nozzle Temperature | 195         | °C |
| Mold Temperature   | 20.0 - 40.0 | °C |

| Extrusion             | Nominal Value | Unit |
|-----------------------|---------------|------|
| Drying Temperature    | 80.0          | °C   |
| Drying Time           | 3.0           | hr   |
| Cylinder Zone 1 Temp. | 170           | °C   |
| Cylinder Zone 2 Temp. | 180           | °C   |
| Cylinder Zone 3 Temp. | 185           | °C   |
| Die Temperature       | 185           | °C   |

#### Extrusion instructions

Extrusion Head Temperature: 195°C

#### NOTE

- |    |             |
|----|-------------|
| 1. | Mouth die c |
| 2. | Mouth die c |
| 3. | Mouth die c |
| 4. | C mould     |
| 5. | Type 1      |

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#### Recommended distributors for this material

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