



# VERSIFY™ 3401 Elastomer

## Overview

VERSIFY™ 3401 Elastomer is a resin with a medium melt flow rate suitable for a wide variety of applications and fabrication processes, including cast film, extrusion and injection molding. It is an excellent resin for stretch films and soft films, and is an excellent choice for PP modification, giving consistent performance in hot and cold conditions.

### Main Characteristics

- White pellet
- Free flowing
- Medium flow
- Excellent elasticity
- Excellent compatibility with PP

### Applications

- Stretch film
- Overmolding
- Soft film
- PP modification

### Complies with:

- EU, No 10/2011
- U.S. FDA
- U.S. FDA FCN 909
- Consult the regulations for complete details.

| Physical  | Nominal Value (English) | Nominal Value (SI)      | Test Method |
|---|-------------------------|-------------------------|-------------|
| Density   | 0.863 g/cm <sup>3</sup> | 0.863 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (230°C/2.16 kg)               | 8.0 g/10 min            | 8.0 g/10 min            | ASTM D1238  |
| Total Crystallinity                               | 14 %                    | 14 %                    | Dow Method  |
| Mechanical  | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Tensile Strength (Break, Compression Molded)      | 986 psi                 | 6.80 MPa                | ASTM D638   |
| Tensile Elongation <sup>1</sup>                   |                         |                         | ASTM D638   |
| Break, Compression Molded                         | 600 %                   | 600 %                   |             |
| Flexural Modulus - 1% Secant (Compression Molded) | 3290 psi                | 22.7 MPa                | ASTM D790   |
| Hardness  | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Durometer Hardness <sup>2</sup>                   |                         |                         | ASTM D2240  |
| Shore A, Compression Molded                       | 72                      | 72                      |             |
| Shore D, Compression Molded                       | 22                      | 22                      |             |
| Thermal   | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Glass Transition Temperature                      | -21.6 °F                | -29.8 °C                | Dow Method  |
| Vicat Softening Temperature                       | < 68.0 °F               | < 20.0 °C               | ASTM D1525  |
| Melting Temperature (DSC)                         | 131 °F                  | 55.0 °C                 | Dow Method  |
| Optical   | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Gardner Gloss                                     |                         |                         | ASTM D523   |
| 20°, 39.4 mil (1000 µm), Compression Molded       | 63                      | 63                      |             |
| 60°, 39.4 mil (1000 µm), Compression Molded       | 112                     | 112                     |             |
| Haze (78.7 mil (2000 µm), Injection Molded)       | 3.2 %                   | 3.2 %                   | ASTM D1003  |



## Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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<sup>1</sup> 2.0 in/min (50 mm/min)

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<sup>2</sup> Hardness after 10 seconds.

