



VERSIFY™ 4301 Elastomer

Overview

VERSIFY 4301 Elastomer is a high melt flow rate resin suitable for a wide variety of applications and fabrication processes, including extrusion and injection molding. It is an excellent resin for films and soft compounds and is an excellent choice for PP modification.

Main Characteristics:

- High flow
- Superior Elasticity
- Excellent compatibility with PP
- Free flowing

Applications:

- Soft compounds
- PP modification
- Blend component for thermoplastic elastomers

Complies with:

- U.S. FDA FCN 708
- U.S. FDA 21 CFR 175.105(c) (5)
- EU, No 10/2011

Consult regulations for complete details

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.868 g/cm ³	0.868 g/cm ³	ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	25 g/10 min	25 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 100% Secant ^{1, 2} (Injection Molded)	595 psi	4.10 MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield, Injection Molded	609 psi	4.20 MPa	
Break, Injection Molded ¹	440 psi	3.03 MPa	
Tensile Elongation ² (Yield, Injection Molded)	39 %	39 %	ASTM D638
Flexural Modulus - 1% Secant ² (Injection Molded)	5220 psi	36.0 MPa	ASTM D790
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness ³			ASTM D2240
Shore A, Injection Molded	84	84	
Shore D, Injection Molded	29	29	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature	-16.6 °F	-27.0 °C	DSC
Vicat Softening Temperature	124 °F	51.0 °C	ASTM D1525
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss			ASTM D2457
45°, 78.7 mil (2000 µm), Injection Molded	73	73	
Haze (78.7 mil (2000 µm), Injection Molded)	2.20 %	2.20 %	ASTM D1003
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Total Crystallinity	• 16 % • 16 %	• 16 % • 16 %	Dow Method



Notes

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

¹ 2.0 in/min (50 mm/min)

² Aged two weeks (± 3 days) prior to testing.

³ Aged two weeks (± 3 days) prior to testing

