



VERSIFY™ 2000 Plastomer

Overview

VERSIFY™ 2000 Plastomer is a resin with a low melt flow rate making it suitable for blown film, blow molding, extrusion and thermoforming. It is an excellent sealant and is particularly suitable for use in BOPE structures. It has excellent compatibility with PP and is useful agent to bring softness and temperature performance.

Main Characteristics

- Pellet
- Low Melt Flow Rate
- Good sealant
- Compatible with PP
- Soft polypropylene

Applications

- Blown Film
- Sealant
- BOPE
- Extrusion Applications

Complies with:

- U.S. FDA FCN 909
- U.S. FDA 21 CFR 175.105(c)(5)
- EU, No 10/2011

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.888 g/cm ³	0.888 g/cm ³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (230°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238 ISO 1133
Total Crystallinity	35 %	35 %	Dow Method
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break, Compression Molded)	3770 psi	26.0 MPa	ASTM D638
Tensile Elongation ¹ Break, Compression Molded	680 %	680 %	ASTM D638
Flexural Modulus - 1% Secant ² (Compression Molded)	52000 psi	359 MPa	ASTM D790
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded ³	96	96	
Shore D, Compression Molded ⁴	54	54	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature	1.40 °F	-17.0 °C	Dow Method
Vicat Softening Temperature	201 °F	94.0 °C	ASTM D1525
Melting Temperature (DSC)	225 °F	107 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Gloss			ASTM D523
20°, 39.4 mil (1000 µm), Compression Molded	108	108	
60°, 39.4 mil (1000 µm), Compression Molded	119	119	
Haze (78.7 mil (2000 µm), Injection Molded)	18.1 %	18.1 %	ASTM D1003



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 Hardness after 10 seconds.

⁴ Hardness after 10 seconds.

