



VERSIFY™ 2000

The Dow Chemical Company - Plastomer

Monday, November 4, 2019

General Information

Product Description

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.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 175.105(c) (5)	• FDA FCN 909
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.890		ASTM D792
Density	0.888	g/cm ³	ISO 1183
Melt Mass-Flow Rate (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Total Crystallinity	35	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	3770	psi	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	680	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Compression Molded)	52000	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded ⁴	96		
Shore D, Compression Molded ⁵	54		

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Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	1.40	°F	Internal Method
Vicat Softening Temperature	201	°F	ASTM D1525
Melting Temperature (DSC)	225	°F	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D523
20°, 39.4 mil, Compression Molded	108		
60°, 39.4 mil, Compression Molded	119		
Haze (78.7 mil, Injection Molded)	18.1	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

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

⁴ Hardness after 10 seconds.

⁵ Hardness after 10 seconds.