

VERSIFY™ 2000

Plastomer

The Dow Chemical Company

Message:

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 Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 175.105(c) (5)		
	FDA FCN 909		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238, ISO 1133
Total Crystallinity	35	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded ¹	96		
Shore D, Compression Molded ²	54		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	26.0	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	680	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (Compression Molded)	359	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method

Glass Transition Temperature	-17.0	°C	Internal Method
Vicat Softening Temperature	94.0	°C	ASTM D1525
Melting Temperature (DSC)	107	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gardner Gloss			ASTM D523
20°, 1000 μm, Compression Molded	108		
60°, 1000 μm, Compression Molded	119		
Haze (2000 μm, Injection Molded)	18	%	ASTM D1003

NOTE

1. Hardness after 10 seconds.
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3. 50 mm/min
4. Aged two weeks (±3 days) prior to testing.

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