

# VERSIFY™ 3000

Plastomer

The Dow Chemical Company

## Message:

VERSIFY™ 3000 Plastomer is a resin with a medium melt flow rate, therefore making it a general purpose film resin. It is suitable for cast film, blown film, and BOPP. It is an excellent sealant and is particularly suitable for use in BOPE structures. It has excellent compatibility with PP and is an useful agent to bring softness and temperature performance.

Main Characteristics

Pellet

Medium Melt Flow Rate

Good sealant

Compatible with PP

Soft polypropylene

Applications

Blown Film

Cast Film

BOPE

BOPP

Sealant

Complies with:

EU, No 10/2011

U.S. FDA FCN 909

U.S. FDA 21 CFR 175.105(c)

Consult the regulations for complete details.

General Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 175.105(c)		
	FDA FCN 909		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.891	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Total Crystallinity	44	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness <sup>1</sup>			ASTM D2240
Shore A, Compression Molded	96		
Shore D, Compression Molded	60		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	27.3	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Compression Molded)	730	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	389	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method

Glass Transition Temperature	-14.0	°C	Internal Method
Vicat Softening Temperature	105	°C	ASTM D1525
Melting Temperature (DSC)	108	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gardner Gloss			ASTM D523
20°, 1000 µm, Compression Molded	126		
60°, 1000 µm, Compression Molded	134		
Haze (2000 µm, Injection Molded)	9.1	%	ASTM D1003
NOTE			
1.	Hardness after 10 seconds.		
2.	50 mm/min		

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