

VERSIFY™ 2200

Plastomer

The Dow Chemical Company

Message:

VERSIFY™ 2200 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 an 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
 - Soft films
 - BOPE
 - Extrusion Applications

Complies with:

- EU, No 10/2011
 - U.S. FDA FCN 909
 - U.S. FDA 21 CFR 175.105(c)(5)
- 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	0.876	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Total Crystallinity	21	%	Internal Method
Ultimate Seal Strength Temperature (50.8 µm)	80	°C	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ¹			ASTM D2240
Shore A, Compression Molded	94		
Shore D, Compression Molded	42		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	20.5	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	690	%	ASTM D638

Flexural Modulus - 1% Secant (Compression Molded)	99.9	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	μm	
Secant Modulus			ASTM D882
2% Secant, MD : 51 μm	86.5	MPa	
2% Secant, TD : 51 μm	94.4	MPa	
Tensile Strength			ASTM D882
MD : Yield, 51 μm	10.7	MPa	
TD : Yield, 51 μm	10.1	MPa	
MD : Break, 51 μm	29.5	MPa	
TD : Break, 51 μm	26.3	MPa	
Elmendorf Tear Strength ³			ASTM D1922
MD : 51 μm	590	g	
TD : 51 μm	1300	g	
Seal Initiation Temperature ⁴ (51 μm)	60.0	°C	Internal Method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-24.0	°C	Internal Method
Vicat Softening Temperature	63.0	°C	ASTM D1525
Melting Temperature (DSC)	82.2	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gardner Gloss			ASTM D523
20°, 1000 μm, Compression Molded	110		
60°, 1000 μm, Compression Molded	128		
Haze (39400 μm, Injection Molded)	4.8	%	ASTM D1003
NOTE			
1.	Hardness after 10 seconds.		
2.	50 mm/min		
3.	Method B		
4.	Temperatures at which 1 lb/in. (4.4 N/25.4 mm) heat seal strength is achieved.		

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