VERSIFY™ 2200

The Dow Chemical Company - Plastomer

Monday, November 4, 2019

General Information

Product Description

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			
Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • 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	0.878		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Total Crystallinity	21	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break, Compression Molded)	2970	psi	ASTM D638
Tensile Elongation [2] (Break, Compression Molded)	690	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	14500	psi	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	2	mil	
Secant Modulus - 2% Secant, MD (2.0 mil)	12600	psi	ASTM D882
Secant Modulus - 2% Secant, TD (2.0 mil)	13700	psi	ASTM D882
Tensile Strength - MD (Yield, 2.0 mil)	1550	psi	ASTM D882

VERSIFY™ 2200
The Dow Chemical Company - Plastomer

Films	Nominal Value	Unit	Test Method
Tensile Strength - TD (Yield, 2.0 mil)	1460	psi	ASTM D882
Tensile Strength - MD (Break, 2.0 mil)	4280	psi	ASTM D882
Tensile Strength - TD (Break, 2.0 mil)	3810	psi	ASTM D882
Elmendorf Tear Strength - MD [3] (2.0 mil)	590	g	ASTM D1922
Elmendorf Tear Strength - TD [3] (2.0 mil)	1300	g	ASTM D1922
Seal Initiation Temperature [4] (2.0 mil)	140	°F	Internal Method
Ultimate Seal Strength Temperature (2.0 mil)	176	°F	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness [5]			ASTM D2240
Shore A, Compression Molded	94		
Shore D, Compression Molded	42		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-11.2	°F	Internal Method
Vicat Softening Temperature	145	°F	ASTM D1525
Melting Temperature (DSC)	180	°F	Internal Method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss			ASTM D523
20°, 39.4 mil, Compression Molded	110		
60°, 39.4 mil, Compression Molded	128		
Haze (1550 mil, Injection Molded)	5.00	%	ASTM D1003

Notes

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

[2] 2.0 in/min

[3] Method B

[4] Temperatures at which 1 lb/in. (4.4 N/25.4 mm) heat seal strength is achieved.

[5] Hardness after 10 seconds.