Technical Information

VERSIFY™ 3000
Plastomer

Overview

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.

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.891	g/cm³	0.891	g/cm³	ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	8.0	g/10 min	8.0	g/10 min	ASTM D1238
Total Crystallinity	44	%	44	%	Dow Method
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength (Break, Compression Molded)	3960	psi	27.3	MPa	ASTM D638
Tensile Elongation [1]					ASTM D638
Break, Compression Molded	730	%	730	%	
Flexural Modulus - 1% Secant (Compression Molded)	56500	psi	389	MPa	ASTM D790
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness [2]					ASTM D2240
Shore A, Compression Molded	96		96		
Shore D, Compression Molded	60		60		
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Glass Transition Temperature	6.80	°F	-14.0	°C	Dow Method
Vicat Softening Temperature	221	°F	105	°C	ASTM D1525
Melting Temperature (DSC)	226	°F	108	°C	Dow Method
Optical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Gardner Gloss					ASTM D523
20°, 39.4 mil (1000 µm), Compression Molded	126		126		
60°, 39.4 mil (1000 µm), Compression Molded	134		134		
Haze (78.7 mil (2000 µm), Injection Molded)	9.1	%	9.1	%	ASTM D1003

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Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] 2.0 in/min (50 mm/min)

[2] Hardness after 10 seconds.

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