VERSIFY™ 3200
Plastomer

DOW

Overview

VERSIFY™ 3200 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 and is an excellent sealant. It has excellent compatibility with PP, excellent adhesion to PE and is an useful agent to bring low seal initiation temperature, softness and temperature performance.

Main Characteristics
- Pellet
- Medium Melt Flow Rate
- Good sealant
- Compatible with PP
- Soft polypropylene

Applications
- Blown Film
- Cast Film
- BOPP
- Sealant

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.

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.876	g/cm³	0.876	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	30	%	30	%	Dow Method

Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Strength (Break, Compression Molded)	3210	psi	22.1	MPa	ASTM D638
Tensile Elongation [1]					ASTM D638
Break, Compression Molded	840	%	840	%	
Flexural Modulus - 1% Secant (Compression Molded)	19000	psi	131	MPa	ASTM D790

Hardness	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Durometer Hardness [2]					ASTM D2240
Shore A, Compression Molded	94		94		
Shore D, Compression Molded	44		44		

Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Glass Transition Temperature	-9.40	°F	-23.0	°C	Dow Method
Vicat Softening Temperature	138	°F	59.0	°C	ASTM D1525
Melting Temperature (DSC)	185	°F	85.0	°C	Dow Method

Optical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Gardner Gloss					ASTM D523
20°, 39.4 mil (1000 µm), Compression Molded	125		125		
60°, 39.4 mil (1000 µm), Compression Molded	134		134		
Haze (78.7 mil (2000 µm), Injection Molded)	3.9	%	3.9	%	ASTM D1003

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.