

VERSIFY™ 3401 Elastomer

Overview

VERSIFY[™] 3401 Elastomer is a resin with a medium melt flow rate suitable for a wide variety of applications and fabrication processes, including cast film, extrusion and injection molding. It is an excellent resin for stretch films and soft films, and is an excellent choice for PP modification, giving consistent performance in hot and cold conditions.

Main Characteristics

- White pellet
- · Free flowing
- · Medium flow
- · Excellent elasticity
- · Excellent compatibility with PP

Applications

- · Stretch film
- Overmolding
- Soft film
- · PP modification

Complies with:

- EU, No 10/2011
- U.S. FDA
- U.S. FDA FCN 909
- Consult the regulations for complete details.

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.865	g/cm³	0.865	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	14	%	14	%	Dow Method
Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Strength (Break, Compression Molded)	986	psi	6.80	MPa	ASTM D638
Tensile Elongation ¹					ASTM D638
Break, Compression Molded	600	%	600	%	
Flexural Modulus - 1% Secant (Compression Molded)	3290	psi	22.7	MPa	ASTM D790
Hardness	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Durometer Hardness ²					ASTM D2240
Shore A, Compression Molded	72		72		
Shore D, Compression Molded	22		22		
Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Glass Transition Temperature	-21.6	°F	-29.8	°C	Dow Method
Vicat Softening Temperature	< 68.0	°F	< 20.0	°C	ASTM D1525
Melting Temperature (DSC)	131	°F	55.0	°C	Dow Method
Optical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Gardner Gloss					ASTM D523
$20^{\circ},39.4$ mil (1000 µm), Compression Molded	63		63		
$60^{\circ},39.4$ mil (1000 µm), Compression Molded	112		112		
Haze (78.7 mil (2000 µm), Injection Molded)	3.20	%	3.20	%	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.

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¹ 2.0 in/min (50 mm/min)

² Hardness after 10 seconds.

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