

VERSIFY™ 4301

Elastomer

The Dow Chemical Company

Message:

VERSIFY 4301 Elastomer is a high melt flow rate resin suitable for a wide variety of applications and fabrication processes, including extrusion and injection molding. It is an excellent resin for films and soft compounds and is an excellent choice for PP modification.

Main Characteristics:

High flow

Superior Elasticity

Excellent compatibility with PP

Free flowing

Applications:

Soft compounds

PP modification

Blend component for thermoplastic elastomers

Complies with:

U.S. FDA FCN 708

U.S. FDA 21 CFR 175.105(c) (5)

EU, No 10/2011

Consult 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	0.868	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ¹ (Shore A, Injection Molded)	84		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant (Injection Molded)	4.10	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield, Injection Molded	4.20	MPa	
Break, Injection Molded ³	3.03	MPa	
Tensile Elongation ⁴ (Yield, Injection Molded)	39	%	ASTM D638
Flexural Modulus - 1% Secant ⁵ (Injection Molded)	36.0	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	51.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method

Gloss (45°, 2000 µm, Injection Molded)	73		ASTM D2457
Haze (2000 µm, Injection Molded)	2.2	%	ASTM D1003
NOTE			
1.	Aged two weeks (±3 days) prior to testing.		
2.	Aged two weeks (±3 days) prior to testing.		
3.	50 mm/min		
4.	Aged two weeks (±3 days) prior to testing.		
5.	Aged two weeks (±3 days) prior to testing.		

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