

VERSIFY™ 4200

Plastomer

The Dow Chemical Company

Message:

VERSIFY™ 4200 Plastomer is a resin with a medium melt flow rate, therefore making it a general purpose resin. It is suitable for fiber extrusion, extrusion coating, compounding and injection molding processes and applications. It has excellent compatibility with PP and is an useful agent to bring softness and temperature performance.

Main Characteristics

Pellet

Medium Melt Flow Rate

Compatible with PP

Soft polypropylene

Applications

Fibers

Compounding

Injection molded consumer goods

Extrusion coating

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 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	0.876	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Total Crystallinity	29	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ¹			ASTM D2240
Shore A, Compression Molded	94		
Shore D, Compression Molded	42		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	22.7	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	850	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	112	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-23.0	°C	Internal Method

Vicat Softening Temperature	61.0	°C	ASTM D1525
Melting Temperature (DSC)	84.0	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gardner Gloss			ASTM D523
20°, 1000 μm, Compression Molded	127		
60°, 1000 μm, Compression Molded	134		
Haze (2000 μm, Injection Molded)	5.1	%	ASTM D1003
NOTE			
1.	Hardness after 10 seconds.		
2.	50 mm/min		

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