



VERIFY™ 4200

The Dow Chemical Company - Plastomer

Monday, November 4, 2019

General Information

Product Description

VERIFY™ 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

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 175.105(c) (5)	• FDA FCN 909
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.878		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Total Crystallinity	29	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	3290	psi	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	850	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	16200	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ³			ASTM D2240
Shore A, Compression Molded	94		
Shore D, Compression Molded	42		
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-9.40	°F	Internal Method
Vicat Softening Temperature	142	°F	ASTM D1525

VERSIFY™ 4200

The Dow Chemical Company - Plastomer

Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	183	°F	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D523
20°, 39.4 mil, Compression Molded	127		
60°, 39.4 mil, Compression Molded	134		
Haze (78.7 mil, Injection Molded)	5.10	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

³ Hardness after 10 seconds.