

VERSIFY™ 4200 Plastomer

Overview

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.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.876 g/cm ³	0.876 g/cm ³	ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	25 g/10 min	25 g/10 min	ASTM D1238
Total Crystallinity	29 %	29 %	Dow Method
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break, Compression Molded)	3290 psi	22.7 MPa	ASTM D638
Tensile Elongation ¹			ASTM D638
Break, Compression Molded	850 %	850 %	
Flexural Modulus - 1% Secant (Compression Molded)	16200 psi	112 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	42	42	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature	-9.40 °F	-23.0 °C	Dow Method
Vicat Softening Temperature	142 °F	61.0 °C	ASTM D1525
Melting Temperature (DSC)	183 °F	84.0 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Gloss			ASTM D523
20°, 39.4 mil (1000 µm), Compression Molded	127	127	
60°, 39.4 mil (1000 µm), Compression Molded	134	134	
Haze (78.7 mil (2000 µm), Injection Molded)	5.10 %	5.10 %	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.

