Technical Information

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/cm³	0.876	g/cm³	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