

Technical Information



DOW™ VLDPE GRSN-1539 NT 7

Very Low Density Polyethylene Resin

Overview

- Low modulus film
- Excellent compatibility with polypropylene and polyethylene
- Granular form of FLEXOMER DFDA-1010 NT 7 VLDPE Resin
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.1a
- Consult the regulations for complete details.

GRSN-1539 NT 7 Very Low Density Polyethylene VLDPE Resin is produced via gas phase polymerization from Dow. This is an ethylene-butene copolymer exhibiting high flexibility and elasticity. It can be utilized in monolayer and coextruded films and in blends with other polyolefins to enhance toughness of the structure. Granular form enhances rapid melt blending into polypropylene or polyethylene.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.905 g/cm ³	0.905 g/cm ³	ASTM D792
Melt Index			ASTM D1238
190°C/2.16 kg	0.85 g/10 min	0.85 g/10 min	
190°C/21.6 kg	24 g/10 min	24 g/10 min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	2400 psi	16.5 MPa	ASTM D638
Tensile Elongation (Break)	700 %	700 %	ASTM D638
Flexural Modulus - 2% Secant	22000 psi	152 MPa	ASTM D790A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec	91	91	
Shore A, 5 sec	94	94	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature	-44.0 °F	-42.2 °C	Dow Method
Melting Temperature (DSC)	246 °F	119 °C	Dow Method

Additional Information

Plaque molded and tested in accordance with ASTM D4976.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.



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