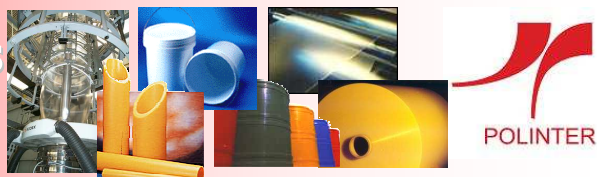


Venelene® Polyethylenes Technical Data Sheet



Venelene® 11PG4 Butene LLDPE for Blown Film

Main Features:

- ◆ Excellent mechanical and optical properties.
- ◆ Good Hot Tack.

Common Applications:

- ◆ General purpose film

Processing Conditions:

- ◆ Extrusion Melt temperature: 160 - 210°C.
- ◆ Inverted Extrusion profile (descendent).
- ◆ Blow up ratio (BUR): 2 - 3.
- ◆ Die gap: 0.9 – 1.5 mm.
- ◆ Frost line Height: 4 to 5 times Die diameter.

Properties	ASTM ⁽¹⁾	Units	Typical Values ⁽²⁾	
Melt Flow Index (190°C / 2.16 Kg.)	D 1238	g/10 min	1.10	
Density	D 792	g/cm ³	0.9200	
Designated NORVEN: (Thermoplastic) Covenin (3581)-PE, FABHS, 18-E012				
Film Properties (35µ) ⁽³⁾				
Tensile properties			DE	DT
Toughness	D 882	MPa	120	135
Tensile Strength at break	D 882	MPa	35	30
Elongation at break	D 882	%	700	800
Elmendorf tear strength	D 1922	g	300	450
Impact resistance	D 1709	KJ/m	23	
Puncture resistance	D 3420	g	440	
Optical properties ⁽³⁾				
Luminous Transmittance	D 1003	%	80	
Haze	D 1003	%	15	
Additives:				
Antioxidants	Standard			
Slip agents	Medium Level			
Anti blocking	Medium Level			
Processing aid Additives	Standard			
UV Stabilizers	N/A			

(1) COVENIN - ASTM standards equivalency: Density Covenin 461-96; Melt Flow Index Covenin 1152-93; Tensile Mechanical Properties Covenin 1357-79, Elmendorf Tear resistances Covenin 994-98, Impact Covenin 384-98, Optical Covenin 464-94.

(2) Reported typical values are obtained from laboratory test. Values should be used as a commercial guide, not as specification data.

(3) The properties were evaluated under an extruded tubular film under the next conditions: Die diameter: 50mm; Extrusion temperature: 170-200°C; Die gap: 1,8 mm; Blow up ratio: 2,5. Both the mechanical properties and the optical depend on the processing conditions.

User Advice: The information provided, to the best knowledge at the time of the publication, is true and accurate. However, POLIOLEFINAS INTERNACIONALES disclaim any liability for the consequences derived from the information uses.

This product meets Venezuelan Sanitary Ministry and FDA requirements for food contact, including cooking applications.