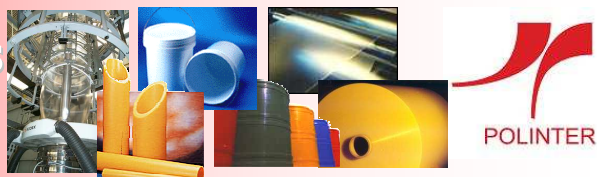


# Venelene® Polyethylenes Technical Data Sheet



## Venelene® 11U4 Butene LLDPE for Blown Film

### Features:

- ◆ Excellent mechanical and optical properties
- ◆ Excellent Hot Tack resistance

### Common Applications:

- ◆ Laminated, co extruded film for automatic food packaging (< 2 kg).
- ◆ General purpose bags

### Recommended Processing

#### Conditions:

- ◆ Extrusion Melt temperature: 160 - 200°C.
- ◆ Inverted Extrusion profile (descendent).
- ◆ Blow up ratio (BUR): 2 – 3
- ◆ Die gap: 0.9 -1.2mm
- ◆ Frost line Height (ALE): 4 - 5 times die diameter

Properties	ASTM <sup>(1)</sup>	Units	Typical value <sup>(2)</sup>	
Melt Flow index (190°C / 2.16 Kg.)	D 1238	g/10 min	1.40	
Density	D 792	g/cm <sup>3</sup>	0.9225	
Designation NORVEN: (Thermoplastic) Covenin (3581)-PE, FABHS, 23-E012				
Film properties (35µ) <sup>(3)</sup>				
Tensile Properties			DE	DT
Toughness	D 882	MPa	130	145
Tensile Strength at break	D 882	MPa	34	26
Elongation at break	D 882	%	700	800
Elmendorf tear strength	D 1922	g	250	350
Impact resistance	D 1709	KJ/m	19	
Puncture resistance	D 3420	g	500	
Optical Properties <sup>(3)</sup>				
Luminous Transmittance	D 1003	%	71	
Haze	D 1003	%	24	
Additives:				
Antioxidants	Standard			
Slip agent	Medium Level			
Anti blocking	Medium Level			
Processing aid additives	Standard			
UV Stabilizer	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 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) Both mechanic properties and optical properties depend of 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.