

**Technical Data Sheet**

# IPETHENE<sup>®</sup> 111

## Low Density Polyethylene

**Description**

IPETHENE<sup>®</sup> 111 is a low density polyethylene extrusion grade, produced by high pressure autoclave technology. It is easily processed with a good balanced between mechanical and optical properties.

**Additives**

This grade does not contain additives.

**Applications**

IPETHENE<sup>®</sup> 111 is suitable for medium duty shopping and garbage bags, liners, pouches, Form-Fill-Seal, shrinks and agriculture films.

**Quality, Environmental and Safety Regulations**

Material Safety Data Sheets and other regulatory documents are available on our web site <http://www.caol.co.il>

Resin Properties		Method	Typical Value*	Unit
<b>Physical</b>				
Melt Flow Rate	(190°C/2.16 kg)	ISO 1133	0.7	g/10 min
Density		ISO 1183-A	0.920	g/cm <sup>3</sup>
<b>Thermal</b>				
Peak Melting Temperature	By DSC	ISO 11357-3	109	°C
Vicat Softening Temperature		ISO 306	95	°C
<b>Film Properties**</b>				
Dart Drop Impact	(F <sub>50</sub> )	ISO 7765-A	280	g
Tensile Stress at Break	(MD/TD)	ISO 527-3	27/25	MPa
Tensile Strain at Break	(MD/TD)	ISO 527-3	450/700	%
Elmendorf Tear Strength	(MD/TD)	ISO 6383-2	350/250	g
Haze		ASTM D 1003	8	%
Gloss	(45°)	ASTM D 2457	60	

\* Typical values, not to be construed as specifications.

\*\* Measured on 50 µm blown film, Blow-up ratio 2.5:1, output 10 kg/h, melt temperature ~180°C.

**Processing Recommendations**

IPETHENE<sup>®</sup> 111 can be easily processed on conventional extruders at melt temperature range 160-180°C. Due to differences in screw and die head designs, processing conditions should be optimized for each production line. With suitable equipment it can be drawn down to 25 µm films.

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