

Technical Data Sheet  
**IPETHENE® 113**  
 Low Density Polyethylene



**Product Description**

**IPETHENE® 113** is a low-density polyethylene film grade, produced by high-pressure autoclave technology.

<b>Features:</b>	<ul style="list-style-type: none"> <li>• Medium level slip and anti-block additives</li> <li>• Heat stabilized</li> <li>• BHT free</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent bubble stability</li> <li>• Good mechanical properties</li> <li>• Good optical properties</li> </ul>
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<b>Uses:</b>	<ul style="list-style-type: none"> <li>• Medium duty bags</li> <li>• Liners</li> </ul>	<ul style="list-style-type: none"> <li>• Shrink films</li> </ul>
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<b>Processing Methods:</b>	<ul style="list-style-type: none"> <li>• Blown film extrusion</li> </ul>
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Properties		Method	Typical Value*	Unit
<b>Physical</b>				
<b>Melt Flow Rate</b>	(190°C/2.16 kg)	ISO 1133	0.7	g/10 min
<b>Density</b>		ISO 1183-A	0.920	g/cm <sup>3</sup>
<b>Thermal</b>				
<b>Peak Melting Temperature</b>	By DSC	ISO 11357-3	109	°C
<b>Vicat Softening Temperature</b>	(10 N)	ISO 306	95	°C
<b>Mechanical**</b>				
<b>Dart Drop Impact</b>	(F <sub>50</sub> )	ISO 7765-A	280	g
<b>Tensile Stress at Break</b>	(MD/TD)	ISO 527-3	27/25	MPa
<b>Tensile Strain at Break</b>	(MD/TD)	ISO 527-3	450/700	%
<b>Elmendorf Tear Strength</b>	(MD/TD)	ISO 6383-2	350/250	g
<b>Optical**</b>				
<b>Haze</b>		ASTM D 1003	8.5	%
<b>Gloss</b>	(45°)	ASTM D 2457	65	%

\*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 ~175°C.

**Processing Recommendations**

IPETHENE® 113 can be easily processed on conventional extruders at melt temperature range 160-175°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.

**Health, Quality, Regulations and Safety**

This product is not classified as dangerous substance. Material safety data sheets, international standards certificates (e.g. ISO 9001) and other regulatory documents are available on our website. This product is not intended for use in medical or pharmaceutical applications and we do not support its use for such applications.

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