

Technical Data Sheet  
**IPETHENE® 970**  
Low Density Polyethylene



### Product Description

**IPETHENE® 970** is a low-density polyethylene injection molding grade, produced by high-pressure autoclave technology.

<b>Features:</b>	<ul style="list-style-type: none"><li>No additives</li><li>High flow</li></ul>	<ul style="list-style-type: none"><li>Low warpage</li></ul>
<b>Uses:</b>	<ul style="list-style-type: none"><li>Carpet Backing</li><li>Baskets</li></ul>	<ul style="list-style-type: none"><li>Household articles</li><li>High filler compounds</li></ul>
<b>Processing Methods:</b>	<ul style="list-style-type: none"><li>Compounding</li></ul>	<ul style="list-style-type: none"><li>Injection molding</li></ul>

Properties		Method	Typical Value*	Unit
<b>Physical</b>				
<b>Melt Flow Rate</b>	(190°C/2.16 kg)	ISO 1133	70	g/10 min
<b>Density</b>		ISO 1183-A	0.914	g/cm <sup>3</sup>
<b>Shore Hardness</b>	'D' Scale	ISO 868	41	
<b>Thermal</b>				
<b>Peak Melting Temperature</b>	By DSC	ISO 11357-3	103	°C
<b>Vicat Softening Temperature</b>	(10 N)	ISO 306	76	°C
<b>Mechanical</b>				
<b>Tensile Stress at Break</b>		ISO 527-2	7	MPa
<b>Tensile Strain at Break</b>		ISO 527-2	120	%

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

### Processing Recommendations

IPETHENE® 970 can be easily processed on conventional injection molding machines. Due to differences in machine type, part shape and mold design, processing conditions should be optimized for each production line. Typical temperature profile: Barrel 150-200°C; Mold 10-40°C.

### 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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