



## HiPrene® M710

Polypropylene Resin

### Product Description

*HiPrene® M710 is a low melt flow, impact modified polypropylene suitable for sheet forming. Because of its good impact resistance and stretchability, it is suitable for food packaging containers and electronic component trays.*

### Product Characteristic

<b>Test Method Used</b>	ASTM
<b>Features</b>	Excellent Impact Resistance    Good Stretchability
<b>Typical Customer Applications</b>	Food Packaging Container / Electronic Component Tray

### Typical Properties

Physical	Test Method	Unit	Value
Melt Index @ 230°C, 2.16kg	ASTM D1238	g/10min	<b>0.6</b>
Density	ASTM D792	g/cm <sup>3</sup>	<b>0.90</b>
Mechanical	Test Method	Unit	Value
Tensile strength @ Yield	ASTM D638	MPa	<b>31</b>
Elongation at break	ASTM D638	%	<b>&gt;400</b>
Flexural Modulus	ASTM D790	MPa	<b>1650</b>
Rockwell Hardness	ASTM D785	R scale	<b>95</b>
Impact	Test Method	Unit	Value
Izod Impact Strength @ 23°C, notched	ASTM D256	J/m	<b>&gt;500</b>
Izod Impact Strength @ -10°C, notched	ASTM D256	J/m	<b>100</b>
Thermal	Test Method	Unit	Value
Heat Deflection Temp. (HDT) @ 0,45 MPa	ASTM D648	°C	<b>120</b>

**Notes:** Typical properties; not to be constructed as specification



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### Product Characteristic

<b>Test Method Used</b>	ISO
<b>Features</b>	Excellent Impact Resistance    Good Stretchability
<b>Typical Customer Applications</b>	Food Packaging Container / Electronic Component Tray

### Typical Properties

Physical	Test Method	Unit	Value
Melt Index @ 230°C, 2.16kg	ISO 1133	g/10min	<b>0.6</b>
Density	ISO 1183	g/cm <sup>3</sup>	<b>0.90</b>
Mechanical	Test Method	Unit	Value
Tensile strength @ Yield	ISO 527	MPa	<b>29</b>
Tensile Elongation @ 23°C	ISO 527	%	<b>&gt;400</b>
Flexural Modulus @23°C	ISO 178	MPa	<b>1600</b>
Rockwell Hardness	ISO 2039	R scale	<b>95</b>
Impact	Test Method	Unit	Value
Izod Impact Strength @ 23°C, notched	ISO 180	kJ/m <sup>2</sup>	<b>&gt;50</b>
Izod Impact Strength @ -10°C, notched	ISO 180	kJ/m <sup>2</sup>	<b>8.0</b>
Thermal	Test Method	Unit	Value
Heat Deflection Temp. (HDT) @ 0,45 MPa	ISO 75	°C	<b>105</b>

**Notes:** Typical properties; not to be constructed as specification

## Processing Recommendations

The actual conditions depends on the type of equipment used.

### Pelletizing and Injection Molding

*HiPrene M710* can be processed with standard injection molding machines. Following molding parameters should be used as guidelines:

Rear Temperature	220 – 240 °C
Middle Temperature	230 – 250 °C
Front Temperature	240 – 260 °C
Nozzle Temperature	250 – 270 °C
Mold Temperature	30 – 50 °C
Injection speed	20 – 40 mm/s
Injection pressure	50 – 80 MPa
Back Pressure	5 – 20 MPa
Dwell Time	20 – 30 s

### Storage

This material should be stored in dry conditions, protected from sunlight and at temperatures below 50 °C.

### Contact

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