



## HiPrene® H570

Polypropylene Resin

### Product Description

*HiPrene® H570 is a medium melt flow, polypropylene homopolymer suitable for injection molding. This material has excellent stiffness. Because of its good stiffness and formability, it is suitable for fiber/filament applications.*

### Product Characteristic

<b>Test Method Used</b>	ASTM	
<b>Features</b>	Excellent Stiffness	Excellent Formability
<b>Typical Customer Applications</b>	Household Goods	

### Typical Properties

Physical	Test Method	Unit	Value
Melt Mass-Flow Rate @ 23°C, 2.16kg	ASTM D1238	g/10min	25
Density	ASTM D792	g/cm <sup>3</sup>	0.90
Mechanical	Test Method	Unit	Value
Tensile strength @ Yield	ASTM D638	MPa	37
Elongation at break	ASTM D638	%	>400
Flexural Modulus	ASTM D790	MPa	1600
Rockwell Hardness	ASTM D785	R scale	105
Impact	Test Method	Unit	Value
Izod Impact Strength @ 23°C, notched	ASTM D256	J/m	35
Thermal	Test Method	Unit	Value
Heat Deflection Temp. (HDT) @ 0,45 MPa	ASTM D648	°C	115

**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 Stiffness	Excellent Formability
<b>Typical Customer Applications</b>	Household Goods	

### Typical Properties

Physical	Test Method	Unit	Value
Melt Mass-Flow Rate @ 23°C, 2.16kg	ISO 1133	g/10min	25
Density	ISO 1183	g/cm <sup>3</sup>	0.90
Mechanical	Test Method	Unit	Value
Tensile strength @ Yield	ISO 527	MPa	35
Tensile Elongation @ 23°C	ISO 527	%	>400
Flexural Modulus @23°C	ISO 178	MPa	1550
Rockwell Hardness	ISO 2039	R scale	105
Impact	Test Method	Unit	Value
Izod Impact Strength @ 23°C, notched	ISO 180	kJ/m <sup>2</sup>	3.5
Thermal	Test Method	Unit	Value
Heat Deflection Temp. (HDT) @ 0,45 MPa	ISO 75	°C	90

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

## Processing Recommendations

The actual conditions depends on the type of equipment used.

### Injection Molding

**HiPrene H570** is easy to process with standard injection molding machines. Following molding parameters should be used as guidelines:

Rear Temperature	190 – 210 °C
Middle Temperature	200 – 220 °C
Front Temperature	200 – 220 °C
Nozzle Temperature	200 – 220 °C
Mold Temperature	25 – 50 °C
Injection speed	10 – 60 %
Injection pressure	20 – 70 MPa
Back Pressure	3 – 10 MPa
Dwell Time	20 – 40 s

### Storage

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

### Contact

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