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# **GS** Caltex

# HiPrene ® M560

Polypropylene Resin

# **Product Description**

**HiPrene® M560** is a high melt flow, impact modified polypropylene suitable for injection molding. This material has good flowability and is easy to process. Because of it's good flowability and impact resistance, it is suitable for home appliance components and battery cases.

# **Product Characteristic**

Test Method Used	ASTM	
Features	Good Flowability	Good Impact Resistance
Typical Customer Applications	Home Appliance Component / Battery Case	

# **Typical Properties**

Physical		Test Method	Unit Value
	Melt Mass-Flow Rate @ 23°C, <mark>2.16kg</mark>	ASTM D1238	g/10min 27
	Density	ASTM D792	g/cm <sup>3</sup> 0.90
Mechanical		Test Method	Unit Value
	Tensile strength @ Yield	ASTM D638	MPa <b>30</b>
	Elongation at break	ASTM D638	% >200
	Flexural Modulus	ASTM D790	MPa <b>1600</b>
	Rockwell Hardness	ASTM D785	R scale 95
Impact		Test Method	Unit Value
	Izod Impact Strength @ 23°C, notched	ASTM D256	J/m <b>60</b>
	Izod Impact Strength @ -10°C, notched	ASTM D256	J/m <b>30</b>
Thermal		Test Method	Unit Value
	Heat Deflection Temp. (HDT) @ 0,45 MPa	ASTM D648	°C <b>125</b>

Notes: Typical properties; not to be constructed as specification



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#### **Product Characteristic**

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Test Method Used	ISO
Features	Good Flowability Good Impact Resistance
Typical Customer Applications	Home Appliance Component / Battery Case

# **Typical Properties**

Physical		Test Method	Unit	Value
	Melt Mass-Flow Rate @ 23°C, <mark>2.16kg</mark>	ISO 1133	g/10min	27
	Density	ISO 1183	g/cm <sup>3</sup>	0.90
Mechanical		Test Method	Unit	Value
	Tensile strength @ Yield	ISO 527	MPa	28
	Tensile Elongation @ 23°C	ISO 527	%	>200
	Flexural Modulus @23°C	ISO 178	MPa	1500
	Rockwell Hardness	ISO 2039	R scale	95
Impact		Test Method	Unit	Value
	Izod Impact Strength @ 23°C, notched	ISO 180	kJ/m²	5.0
	Izod Impact Strength @ -10°C, notched	ISO 180	kJ/m²	3.0
Thermal		Test Method	Unit	Value
	Heat Deflection Temp. (HDT) @ 0,45 MPa	ISO 75	°C	105
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Notes: Typical properties; not to be constructed as specification

# **Processing Recommendations**

The actual conditions depends on the type of equipment used.

#### **Injection Molding**

**HiPrene M560** is easy to process with standard injection molding machines. Following molding parameters should be used as guidelines:

Rear Temperature	180 – 190 °C
Middle Temperature	190 – 200 °C
Front Temperature	200 – 210 °C
Nozzle Temperature	200 – 210 °C
Mold Temperature	40 – 50 °C
Injection speed	20 – 40 mm/s
Injection pressure	20 – 40 MPa
Back Pressure	5 – 10 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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