



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

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

Typical Properties

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

Notes: Typical properties; not to be constructed as specification

Technical Data Sheet



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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

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

Typical Properties

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

Notes: Typical properties; not to be constructed as specification

Technical Data Sheet

Processing Recommendations

The actual conditions depends on the type of equipment used.

Pelletizina 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

GS Caltex Corporation

GS Tower, 508 Nonhyeon-ro, Gangnam-gu, Seoul
Republic of Korea
tel.: 82 042 866 1703; 82 042 866 1884