

# HiPrene® HT42WGT

Polypropylene

GS Caltex

## Message:

HiPrene® HT42WGT is a 20% mineral filled polypropylene compound suitable for injection moulding. This material has a good flowability and excellent balanced mechanical properties. This grade is available in natural or color-matched, pellet form.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Rigidity, high		
	Workability, good		
	Good liquidity		
	Heat resistance, high		
	Low shrinkage		
Uses	Large household appliances and small household appliances		
	Application in Automobile Field		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)	10	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	1.1	%	Internal method
Flow direction	1.1	%	Internal method
Ash Content (600°C)	20	%	ISO 3451
Volatile Matter	0.10	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	36.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Flexural Modulus <sup>1</sup> (23°C)	2800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m <sup>2</sup>	ISO 179/1eA
Injection	Nominal Value	Unit	

Drying Temperature	80.0	°C
Drying Time	2.0	hr
Hopper Temperature	40.0 - 80.0	°C
Processing (Melt) Temp	210 - 250	°C
Mold Temperature	30.0 - 50.0	°C
Holding Pressure	4.00 - 6.50	MPa

#### Injection instructions

Back Pressure: Low to MediumScrew Speed: Low to MediumInjection Speed: 100 to 200 m/min

#### NOTE

1. 2.0 mm/min

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#### Recommended distributors for this material

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