

## HiPrene® HT41

Polypropylene Compound

### Product Description

*HiPrene® HT41 is 10% mineral filled polypropylene compound suitable for injection moulding. This material combines high stiffness, good processability and heat resistance. It has been developed for Automotive Parts and Industrial Parts. This material is available in natural or color-matched, pellet form.*

### Product Characteristic

Status	Commercial: Active	
Test Method Used	ISO	
Availability	Europe	
Features	Mineral Reinforced	Heat Resistance
	High Stiffness	Good Processability
Typical Customer Applications	Automotive Parts	Industrial Parts

### Typical Properties

Physical	Test Method	Unit	Value
Melt Mass-Flow Rate	ISO 1133	g/10min	14
Specific Gravity	ISO 1183	g/cm <sup>3</sup>	0,96
Mechanical	Test Method	Unit	Value
Tensile Strength at Yield @ 23°C	ISO 527	MPa	35
Tensile Strain at Yield @ 23°C	ISO 527	%	6
Flexural Modulus @ 23°C	ISO 178	MPa	2400
Impact	Test Method	Unit	Value
Charpy Impact Strength @ 23°C, notched	ISO 179/1eA	kJ/m <sup>2</sup>	2,7
Hardness	Test Method	Unit	Value
Rockwell Hardness (R-Scale)	ISO 2039	-	100
Thermal	Test Method	Unit	Value
Volatile Matters	GS Method	%	0,1
Ash Content @ 600°C	ISO 3451	%	10

Notes: Typical properties; not to be constructed as specification

## Processing Techniques

The actual conditions depends on the type of equipment used.

### Injection Moulding

*HiPrene HT41* is easy to process with standard injection moulding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C. Following moulding parameters should be used as guidelines:

Feeding temperature	40 – 80 °C
Mass temperature	210 – 250 °C
Back pressure	Low to medium
Holding pressure	40 – 65 bar
Mould temperature	30 – 50 °C
Screw speed	Low to medium
Injection speed	20 – 100 mm/s

### Storage

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

### Contact

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