



## HiPrene<sup>®</sup> MT42

Polypropylene Compound

### Product Description

*HiPrene<sup>®</sup> MT42 is a medium melt flow, 20% mineral filled polypropylene compound. This material has good flowability and it is easy to process. Because of it's good impact/stiffness balance is suitable for Industrial Parts and non-visible automotive interior parts. This grade is available in natural or color-matched, pellet form.*

### Product Characteristic

<b>Status</b>	Commercial: Active
<b>Test Method Used</b>	ASTM
<b>Availibility</b>	Europe
<b>Features</b>	Impact Resistance                      Good Flow High Stiffness                                Good Processability
<b>Typical Customer Applications</b>	Industrial Parts

### Typical Properties

Physical	Symbol	Test Method	Unit	Value
Melt Mass-Flow Rate	MFR	ASTM D1238	g/10min	<b>10</b>
Specific Gravity	$\rho$	ASTM D792	g/cm <sup>3</sup>	<b>1,06</b>
Mechanical	Symbol	Test Method	Unit	Value
Tensile Stress @ Yield	$\sigma_m$	ASTM D638	MPa	<b>27</b>
Tensile Strain @ Break	$\epsilon_{tB}$	ASTM D638	%	<b>30</b>
Flexural Modulus @ 23°C (2mm/min)	$E_f$	ASTM D790	MPa	<b>2700</b>
Impact	Symbol	Test Method	Unit	Value
IZOD Impact Strength @ 23°C	$a_{iN23^\circ C}$	ASTM D256	kJ/m <sup>2</sup>	<b>6</b>
Hardness	Symbol	Test Method	Unit	Value
Rockwell Hardness (R-Scale)	HR-R	ASTM D785	-	<b>95</b>
Thermal	Symbol	Test Method	Unit	Value
Temperature of Deflection under Load (HDT)	$T_f$	ASTM D648	°C	-
Volatile Matters	-	GS Method	%	<b>0,1</b>
Ash Content @ 600°C	Ash <sub>600°C</sub>	GS Method	%	<b>20</b>

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

## Processing Techniques

The actual conditions depends on the type of equipment used.

### Injection Moulding

*HiPrene MT42* 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
Melt 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	100 – 200 m/min

### Storage

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

### Contact

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