



## HiPrene<sup>®</sup> MT42TB

Polypropylene TPO Compound

### Product Description

*HiPrene<sup>®</sup> MT42TB is a medium 20% mineral filled, impact modified polypropylene compound suitable for injection moulding. This material has very good impact/stiffness balance. This grade is primarily designed for invisible C/PAD but it is suitable also for other interior parts where is necessary to have high impact resistance. This grade is paintable and 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>	Paintable High Impact Resistance Excellent Dimensional Stability High Stiffness
<b>Typical Customer Applications</b>	Automotive Interior Parts-C/PAD

### Typical Properties

Physical	Symbol	Test Method	Unit	Value
Melt Mass-Flow Rate	MFR	ASTM D1238	g/10min	9
Specific Gravity	$\rho$	ASTM D792	g/cm <sup>3</sup>	1,03
Mechanical	Symbol	Test Method	Unit	Value
Tensile Stress @ Yield	$\sigma_m$	ASTM D638	MPa	18
Tensile Strain @ Break	$\epsilon_{tB}$	ASTM D638	%	50
Flexural Modulus @ 23°C (2mm/min)	$E_f$	ASTM D790	MPa	1700
Impact	Symbol	Test Method	Unit	Value
IZOD Impact Strength @ 23°C	$a_{IN23^\circ C}$	ASTM D256	kJ/m <sup>2</sup>	45
Hardness	Symbol	Test Method	Unit	Value
Rockwell Hardness (R-Scale)	HR-R	ASTM D785	-	65
Thermal	Symbol	Test Method	Unit	Value
Temperature of Deflection under Load (HDT)	$T_f$	ASTM D648	°C	-
Volatile Matters	-	GS Method	%	0,1
Ash Content @ 600°C	Ash <sub>600°C</sub>	GS Method	%	20

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

## Processing Techniques

The actual conditions depends on the type of equipment used.

### Injection Moulding

*HiPrene MT42TB* 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 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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