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GS Caltex Czech, s.r.o.

HiPrene ® MM41DT

Polypropylene Compound

Product Description

HiPrene® MM41DT is a mineral filled, impact modified polypropylene compound suitable for injection moulding. This material has been developed for highly demanding aesthetic automotive application, with perfect scratch resistance and UV stabilization. It is especially suitable for car interior applications requiring ductility, because of its high impact resistance and requiring very high scratch resistance because of location in the car interior. This grade is available in natural or color-matched, pellet form.

Product Characteristic

Status	Commercial: Active	
Test Method Used	ISO	
Avalilability	Europe	
Features	Scratch Resistance	High Impact Resistance
	High Stiffness	Good Processability
Typical Customer Applications	Automotive Interior Parts	

Typical Properties

Physical		**Test Method**	**Unit**	**Value**
	Melt Mass-Flow Rate	ISO 1133	g/10min	**11.8**
	Specific Gravity	ISO 1183	g/cm³	**0.96**
Mechanical		**Test Method**	**Unit**	**Value**
	Tensile Stress	ISO 527-2	MPa	**22**
	Tensile Strain	ISO 527-2	%	**5**
	Flexural Modulus[1] @ 23°C	ISO 178	MPa	**1650**
Impact		**Test Method**	**Unit**	**Value**
	Charpy Impact Strength @ 23°C, notched	ISO 179/1eA	kJ/m²	**47**
Thermal		**Test Method**	**Unit**	**Value**
	Heat Deflection Temperature	ISO 75-2/A	℃	**110**
	Volatile Matters	GS Method	%	**0.13**
	Ash Content @ 600°C	ISO 3451	%	**7.1**

Notes: Typical properties; not to be constructed as specification

Technical Data Sheet

Processing Techniques

The actual conditions depends on the type of equipment used.

Injection Moulding

HiPrene MM41DT 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 quidelines:

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	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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