



HiPrene[®] M570

Polypropylene Compound

Product Description

HiPrene[®] M570 is polypropylene impact copolymer with good processing stability and medium fluidity. It is intended especially for injection moulding of products where good impact resistance as well as high stiffness is required. This grade is available in different colors.

Product Characteristic

Status	Commercial: Active
Test Method Used	ASTM
Availibility	Europe
Features	Colored High Stiffness Impact Resistance Good Processability
Typical Customer Applications	Battery Case, Electric Appliance Parts, Automobile Parts

Typical Properties

Physical	Symbol	Test Method	Unit	Value
Melt Mass-Flow Rate	MFR	ASTM D1238	g/10min	40
Specific Gravity	ρ	ASTM D792	g/cm ³	0,91
Mechanical	Symbol	Test Method	Unit	Value
Tensile Stress @ Yield	σ_m	ASTM D638	MPa	23
Tensile Strain @ Break	ϵ_{tB}	ASTM D638	%	50
Flexural Modulus @ 23°C (2mm/min)	E_f	ASTM D790	MPa	1450
Impact	Symbol	Test Method	Unit	Value
IZOD Impact Strength @ 23°C	a_{Iz} @ 23°C	ASTM D256	kJ/m ²	8
Hardness	Symbol	Test Method	Unit	Value
Rockwell Hardness (R-Scale)	HR-R	ASTM D785	-	95
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 _{600°C}	GS Method	%	1

Notes: Typical properties; not to be constructed as specification

Processing Techniques

The actual conditions depends on the type of equipment used.

Injection Moulding

HiPrene M570 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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