



HiPrene[®] RT35DHB

Thermoplastic Elastomer (TPE-O)

Product Description

HiPrene[®] RT35DHB is a medium flow olefinic thermoplastic elastomer (TPE-O). This material has excellent impact resistance even at low temperatures. It has been primarily designed for Airbag Cover. This material is available in natural or color-matched, pellet form.

Product Characteristic

Status	Commercial: Active
Test Method Used	ASTM
Availability	Europe
Features	Scratch Resistance Low Temperature Impact Resistance
Typical Customer Applications	Automotive Interior-Airbag Cover

Typical Properties

Physical	Symbol	Test Method	Unit	Value
Melt Mass-Flow Rate	MFR	ASTM D1238	g/10min	9
Specific Gravity	ρ	ASTM D792	g/cm ³	0,89
Mechanical	Symbol	Test Method	Unit	Value
Tensile Stress @ Yield	σ_m	ASTM D638	MPa	12,3
Tensile Strain @ Break	ϵ_{tB}	ASTM D638	%	485
Flexural Modulus ¹ @ 23°C	E_f	ASTM D790	MPa	500
Impact	Symbol	Test Method	Unit	Value
IZOD Impact Strength @ 23°C	$a_{IN23^\circ C}$	ASTM D256	kJ/m ²	NB
IZOD Impact Strength @ -40°C	$a_{IN-40^\circ C}$	ASTM D256	kJ/m ²	120
Thermal	Symbol	Test Method	Unit	Value
Ash Content @ 600°C	Ash _{600°C}	GS Method	%	1

¹ feed rate 2 mm/min

Notes: Typical properties; not to be constructed as specification

Processing Techniques

The actual conditions depends on the type of equipment used.

Injection Moulding

HiPrene RT35DHB 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	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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