



HiPrene[®] HLG72NHE

Polypropylene Compound-Blended Type-Natural Color

Product Description

HiPrene[®] HLG72NHE is a 20% long glass fiber reinforced polypropylene compound. This material has very good mechanical and thermal properties. It can replace other engineering plastics where is necessary to have high stiffness. It is suitable for many different application in Automotive and Home Appliance Industry.

Product Characteristic

Status	Commercial: Active
Test Method Used	ASTM
Availibility	Europe
Features	Blended Type Long Glass Fiber Reinforced High Stiffness
Typical Customer Applications	Industrial Parts

Typical Properties

Physical	Symbol	Test Method	Unit	Value
Melt Mass-Flow Rate	MFR	ASTM D1238	g/10min	-
Specific Gravity	ρ	ASTM D792	g/cm ³	1,02
Mechanical	Symbol	Test Method	Unit	Value
Tensile Strength @ Yield	σ_m	ASTM D638	MPa	100
Tensile Stress @ Break	ϵ_{tB}	ASTM D638	%	4,5
Flexural Modulus @ 23°C (2mm/min)	E_f	ASTM D790	MPa	4600
Impact	Symbol	Test Method	Unit	Value
IZOD Impact Strength @ 23°C	$a_{iN23^\circ C}$	ASTM D256	kJ/m ²	17
Hardness	Symbol	Test Method	Unit	Value
Rockwell Hardness (R-Scale)	HR-R	ASTM D785	-	105
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	%	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 HLG73BBE is easy to process with standard injection moulding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 4h at 90°C. Following moulding parameters should be used as guidelines:

Feeding temperature	40 – 80 °C
Rear Temperature	220 – 230 °C
Middle Temperature	230 – 240 °C
Front Temperature	240 – 250 °C
Nozzle Temperature	240 – 250 °C
Melt Temperature	230 – 270 °C
Mold Temperature	30 – 75 °C
Injection Pressure	55 – 120 MPa
Injection Rate	Slow
Holding Pressure	40 – 80 MPa
Back Pressure	0 – 3 MPa

Storage

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

Contact

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