



## HiPrene<sup>®</sup> HLG73BBE

Long Glass Fiber reinforced PP compound-Black Color-Blended Type

### Product Description

*HiPrene<sup>®</sup> HLG73BBE is polypropylene with 30% long glass fibers-blended type with impact copolymer. This material combines excellent strength and stiffness with perfect impact resistance at low temperatures also. This grade is available in black color.*

### Product Characteristic

<b>Status</b>	Commercial: Active
<b>Test Method Used</b>	ISO
<b>Availability</b>	Europe
<b>Features</b>	Blended-Impact Copolymer      High Strength Good Impact Resistance      High Stiffness
<b>Typical Customer Applications</b>	Automotive Application/Industrial Parts

### Typical Properties

Physical	Symbol	Test Method	Unit	Value
Melt Mass-Flow Rate	MFR	ISO 1133	g/10min	-
Specific Gravity	$\rho$	ISO 1183	g/cm <sup>3</sup>	1,13
Mechanical	Symbol	Test Method	Unit	Value
Tensile Stress @ Yield	$\sigma_m$	ISO 527-2	MPa	95
Tensile Strain @ Break	$\epsilon_{tB}$	ISO 527-2	%	5
Flexural Modulus @ 23°C (2mm/min)	$E_f$	ISO 178	MPa	5200
Impact	Symbol	Test Method	Unit	Value
IZOD Impact Strength @ 23°C, notched	$a_{I23^\circ C}$	ISO 179/1eA	kJ/m <sup>2</sup>	24
Hardness	Symbol	Test Method	Unit	Value
Rockwell Hardness (R-Scale)	HR-R	ISO 2039	-	90
Thermal	Symbol	Test Method	Unit	Value
Heat Deflection Temperature B	$T_f$	ISO 75-2/B	°C	156
Volatile Matters	-	GS Method	%	0,12
Ash Content @ 600°C	Ash <sub>600°C</sub>	ISO 3451	%	30

**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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