

## HiPrene<sup>®</sup> HSG42

Polypropylene Compound

### Product Description

HiPrene<sup>®</sup> HSG42 is 20% short glass fibre reinforced polypropylene compound. This grade has very good mechanical and thermal properties. It is suitable for many different application in Automotive and Home appliance industry where is necessary to have high stiffness.

### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method Used</b>	ISO
<b>Availability</b>	Europe/Asia
<b>Features</b>	Short Glass Fibre Reinforced/Heat resistance
<b>Typical Customer Applications</b>	Automobile Parts/Home Appliance Parts

### Typical Properties

Physical	Symbol	Test Method	Unit	Specification
Melt Mass-Flow Rate	MFR	ISO 1133-2/A	g/10min	<b>5 ± 2</b>
Specific Gravity	$\rho$	ISO 1183	g/cm <sup>3</sup>	<b>1,04 ± 0,02</b>
Molding Shrinkage	S <sub>M</sub>	ISO 294-4	%	-
Mechanical	Symbol	Test Method	Unit	Specification
Tensile Strength	$\sigma_m$	ISO 527-2/1A/50	MPa	<b>min. 70</b>
Nominal Tensile Strain at Break	$\epsilon_{IB}$	ISO 527-2/1A/50	%	<b>N/A</b>
Flexural Strength	$\sigma_{fm}$	ISO 178/B	Mpa	<b>N/A</b>
Flexural Modulus	E <sub>f</sub>	ISO 178/B	MPa	<b>min. 3900</b>
Impact	Symbol	Test Method	Unit	Specification
Notched IZOD Impact Strength @ 23°C	a <sub>IN23°C</sub>	ISO 180/A/23°C	kJ/m <sup>2</sup>	<b>min. 10</b>
Hardness	Symbol	Test Method	Unit	Specification
Rockwell Hardness (R-Scale)	HR-R	ISO 2039-2/R	-	<b>min. 100</b>
Thermal	Symbol	Test Method	Unit	Specification
Temperature of Deflection under Load (HDT)	T <sub>f</sub>	ISO 75-2/A	°C	<b>min. 160</b>
Volatile Matters		GS Standard SOP003	%	<b>N/A</b>
Ash Content @ 600°C	Ash <sub>600°C</sub>	ISO 3451-1/A/600°C	%	<b>N/A</b>

### Notes

Typical properties; not to be constructed as specifications

### Contact

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