

HiPrene[®] HSG42

Polypropylene Compound

Product Description

HiPrene[®] 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

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

Typical Properties

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

Notes

Typical properties; not to be constructed as specifications

Contact

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