

HiPrene® HSG43BE

Polypropylene

GS Caltex

Message:

HiPrene® HSG43BE is a glass fiber filled polypropylene compound suitable for injection moulding. This material combines good stiffness, good processability and surface finish. It has been developed for Industrial Parts and Non-visible Automotive Parts. This material is available in black color.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Rigidity, high		
	Workability, good		
	Excellent appearance		
Uses	Industrial application		
	Application in Automobile Field		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	3.5	g/10 min	ISO 1133
Ash Content (600°C)	30	%	ISO 3451
Volatile Matter	0.10	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	95.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.5	%	ISO 527-2
Flexural Modulus ¹ (23°C)	6000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179/1eA
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Hopper Temperature	40.0 - 80.0	°C	
Processing (Melt) Temp	210 - 250	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	4.00 - 6.50	MPa	
Injection instructions			
Back Pressure: Low to MediumScrew Speed: Low to MediumInjection Speed: 100 to 200 m/min			

NOTE

1. 2.0 mm/min

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Recommended distributors for this material

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