

HiPrene® HLG76BE

Polypropylene

GS Caltex

Message:

HiPrene® HLG76BE is polypropylene with 60% long glass fibers. The fibers are chemically coupled to polypropylene matrix. Pellets are cylindrical and usual length of embedded fibers is 10mm. This material combines excellent strength and stiffness with perfect impact resistance at low temperatures also. This grade is available in black color.

General Information			
Filler / Reinforcement	Long Glass Fiber,60% Filler by Weight		
Features	Chemically Coupled		
	Good Impact Resistance		
	High Stiffness		
	High Strength		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Industrial Applications		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Ash Content (600°C)	60	%	ISO 3451
Volatile Matter	0.12	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	104		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	155	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus ¹ (23°C)	15000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	36	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	157	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0	hr	
Rear Temperature	220 to 230	°C	

Middle Temperature	230 to 240	°C
Front Temperature	240 to 250	°C
Nozzle Temperature	240 to 250	°C
Processing (Melt) Temp	230 to 270	°C
Mold Temperature	30.0 to 75.0	°C
Injection Pressure	55.0 to 120	MPa
Injection Rate	Slow	
Holding Pressure	40.0 to 80.0	MPa
Back Pressure	0.00 to 3.00	MPa
NOTE		

1. 2.0 mm/min

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

