

HiPrene® ALC12B

Polyamide 6

GS Caltex

Message:

HiPrene® ALC12B is 20% Long Carbon Fiber reinforced polyamide-6 compound. This material combines excellent mechanical properties with low density and excellent dimensional stability. It has been designed for Weight-reduction in Automotive and other Industrial applications. This grade is available in black color.

General Information			
Filler / Reinforcement	Long carbon fiber, 20% filler by weight		
Features	Good dimensional stability		
	Low density		
	Rigidity, high		
Uses	Industrial application		
	Application in Automobile Field		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Ash Content (600°C)	20	%	Internal method
Heat Deflection Temperature	215	°C	ASTM D648
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	195	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus ¹ (23°C)	11500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	9.00	kJ/m ²	ASTM D256
23°C	10.0	kJ/m ²	ASTM D256
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0	hr	
Rear Temperature	255 - 265	°C	
Middle Temperature	265 - 275	°C	
Front Temperature	275 - 285	°C	
Nozzle Temperature	275 - 285	°C	
Processing (Melt) Temp	275 - 285	°C	

Mold Temperature	50.0 - 70.0	°C
Injection instructions		
Feeding Temperature: 200 to 250°C		
NOTE		
1.	2.0 mm/min	

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Recommended distributors for this material

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