

HIPRENE ALC12BE

HiPrene®ALC12BE 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.

	Properties	Test condition	Method	Unit	Value
Impact	Izod Impact Strength	23°C	ASTM D256	KJ/m ²	10
	Izod Impact Strength	-30°C	ASTM D256	KJ/m ²	9
Hardness	Rockwell Hardness	R-Scale	ASTM D785		122
Physical	Specific Gravity		ASTM D792	g/cm ³	1,17
Thermal	Temperature of Deflection under Load (HDT)		ASTM D648	°C	215
	Ash Content	600°C	GS Method	%	20
Mechanical	Tensile Stress at Yield		ASTM D638	MPa	195
	Tensile Strain at Break		ASTM D638	%	1,5
	Flexural Modulus ¹	23°C	ASTM D790	MPa	11500