

## Technical Data Sheet

### Arsamide GF-I 25012

**Product Type:** Arsamide GF-I 25012 is polyamide with 30% Glass Fiber

**Product Description:** Arsamide GF-I 25012 is a black 30% glass fiber modified PA6 designed for injection molding process.

The product offers an excellent balance of mechanical & process-ability and features a long-term heat-stability.

Property	Test Method	Test Condition	Value	Unit
<b>General Properties</b>				
Material	Polyamide6 reinforced with 30% glass fiber			
Process Method	Injection			
Color	Black			
<b>Physical Properties</b>				
Density	ASTM D 792	(23 °C)	1.31	g/cm <sup>3</sup>
Ash/Filler/ TD Content	ASTM D 5630	(600 °C)	30	%
Mold Shrinkage	ASTM D 955	24 Hr	-	%
Melt Flow Index	ASTM D 1238	230 °C-2.16 kg	-	gr/10min
<b>Mechanical Properties</b>				
Tensile Strength at Break	ASTM D 638	(5 mm/min)	125	MPa
Tensile Strength Yield	ASTM D 638	(5 mm/min )	119	MPa
Tensile strain at Break	ASTM D 638	(5 mm/min )	7	%
Tensile strain at Yield	ASTM D 638	(5 mm/min )	6	%
Izod Impact Strength	ASTM D 256	Notched at 23°C	23	KJ/m <sup>2</sup>

- All mentioned information in this technical data sheet present current knowledge and experience of Arsam. Naturally, these data do not guarantee certain values since may vary on customers processing conditions, so they are provided for reference purposes only and should not be used alone to create specification limits and design basis.

#### Processing Conditions:

- Recommended Zone Setting are as follows: (240-260) °C
- Mold Surface Temperature: (50-80) °C
- Pre-drying is necessary for materials and dryer operation at 80 °C is recommended. Drying time 2-4 hour is generally sufficient