

Technical Data Sheet

Arsalene ESD GF-I 19001

Product Type: Arsalene ESD GF-I is a black electrically conductive high density polyethylene compound.
Product Description: Arsalene ESD GF-I 19001 is a black electrically conductive compound manufactured from a high performance high density polyethylene. Arsalene ESD GF-I is suited for the production of high performance technical parts intended for use in explosive or hazardous atmospheres like mono and multi-layer fuel tank, pipes and drums.

Property	Test Method	Test Condition	Value	Unit
General Properties				
Material	Polyethylene filled with 20% glass fiber			
Process Method	Injection			
Color	Black			
Physical Properties				
Density	ASTM D 792	(23 °C)	1.16	g/cm ³
Ash/Filler/ TD Content	ASTM D 5630	(600 °C)	20	%
Melt Flow Index	ASTM D 1238	190 °C-21.6 kg	4	gr/10min
Mechanical Properties				
Tensile Strength at Break	ASTM D 638	(50 mm/min)	40	MPa
Tensile Strength Yield	ASTM D 638	(50 mm/min)	41	MPa
Tensile strain at Break	ASTM D 638	(50 mm/min)	7	%
Tensile strain at Yield	ASTM D 638	(50 mm/min)	5	%
Izod Impact Strength	ASTM D 256	Notched at 23°C	21	KJ/m ²
Electrical Properties				
Surface Resistivity	IEC 60093	-	<1.0E+6	ohm

- 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: (190-230) °C
- Mold Surface Temperature: (40-60) °C
- Pre-drying is necessary for materials and dryer operation at 70 °C is recommended. Drying time 1-2 hour is generally sufficient.