



TotalEnergies

Refining & Chemicals
Polymers

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Polyethylene HDPE ESD201B

Technical data sheet
High Density Polyethylene FUEL SYSTEMS
Produced in Europe

Description

HDPE ESD201B is a black electrically conductive compound manufactured from a high performance high density polyethylene.

HDPE ESD201B 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 filler pipes or multi-layer IBC's, drums and jerry cans for non-food contact applications.

HDPE ESD201B key characteristics are:

Excellent long term conductivity of the end product

Excellent compatibility with (semi) high molecular weight polyethylene

Smooth processing on most equipment (mono or multi-layer blow moulding, injection moulding).

Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	g/cm ³	0.995
Melt Flow Rate (190°C/21.6 kg)	ISO 1133/G	g/10 min	4.5
Surface resistivity	Internal method	Ohm/sq	Max 10000
Volume resistivity	Internal method	Ohm.cm	Max 10000
Flexural modulus	ISO 178	MPa	1200

(*) Data not intended for specification purposes

Processing

It is recommended to process HDPE ESD201B within the temperature range 190-250°C.

Polyethylene