TotalEnergies

Refining & Chemicals
Polymers

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/cm³	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.

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: www.polymers.totalenergies.com.

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. These are typical values not to be construed as specification limits. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within TotalEnergies Petrochemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.

TOTALENERGIES ONE TECH BELGIUM
Zone Industrielle C
B-7181 Feluy
Belgium

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Contact : fuelsystems@totalenergies.com
www.polymers.totalenergies.com

Polyethylene