TotalEnergies

Refining & Chemicals
Polymers

Polyethylene MS482

Technical data sheet
Metallocene High Density Polyethylene FUEL SYSTEMS
Produced in Europe

Description

MS482 is a second-generation metallocene high density polyethylene resin with excellent Environmental Stress Cracking Resistance (ESCR) intended for the injection moulding of automotive components such as DEF (AdBlue®) tanks for Selective Catalytic Reduction (SCR) systems.

MS482 combines high performance with easy processing and good dimensional stability.

MS482 is a pellet grade and contains antioxidants.

Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	g/cm³	0.947
Melt Flow Rate (190°C/2.16 kg)	ISO 1133/D	g/10 min	2
Melt Flow Rate (190°C/21.6 kg)	ISO 1133/G	g/10 min	80
Tensile Modulus	ISO 527	MPa	900
Tensile Strength at Yield	ISO 527	MPa	23
ESCR Antarox 100% F_{50}	ASTM D 1693	h	> 1000

(*) Data not intended for specification purposes

Processing

It is recommended to process MS482 within the temperature range 180-240°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.

Polyethylene

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.

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