



**TotalEnergies**

Refining & Chemicals  
Polymers

## Description

MDPE 3802 B is a black medium density polyethylene particularly suited for cable sheathing applications and designed to meet the requirements for telecommunication and power cables (medium and high voltage).

MDPE 3802 B key characteristics are :

- A superior resistance to crack formation and growth
- An optimal balance of flexibility and mechanical strength allowing easy coiling, handling and installation together with high surface hardness and excellent abrasion resistance.
- An optimised formulation of additives and finely dispersed carbon black providing outstanding long-term stability in service
- Low dielectric constant
- Easy processing

## Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	g/cm <sup>3</sup>	0.948
Melt Flow Rate (190°C/2.16 kg)	ISO 1133/D	g/10 min	0.2
Melt Flow Rate (190°C/5 kg)	ISO 1133/T	g/10 min	0.9
ESCR F50	ASTM D 1693 (b)	h	> 1000
Thermal stability OIT 200°C	EN 728	min	> 20
Shore D Hardness	DIN 53505		60

(\*) Data not intended for specification purposes

## 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](http://www.polymers.totalenergies.com).

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