

Description

MDPE 3802 B is a high performance hexene-based black compound, with a MRS 8 MPa - PE 80 classification, and primarily intended for potable water and gas pipe applications.

MDPE 3802 B key characteristics are

- a superior resistance to slow crack growth ensuring safe and long-term network operation
- an optimal balance of flexibility and mechanical strength that allows easy coiling, handling and installing of pipes
- an optimised formulation of additives and finely dispersed carbon black providing outstanding long-term stability in service.

Designation ISO 1872-PE,E/M-ACGHL,40-T012

Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	kg/m ³	948
Melt Flow Rate (190°C/5 kg)	ISO 1133/T	g/10 min	0.9
Thermal stability 200°C	EN 728 / ISO 11357-6	min	> 20
Carbon black content	ISO 6964	%	2.0 – 2.5
Carbon black dispersion	ISO 18553	rating	≤ 3
Water content (**)	EN 12118	ppm	≤ 300

(*) Data not intended for specification purposes

(**) Measured at the stage of compound manufacturing

Processing

MDPE 3802 B can be processed under the following recommended conditions.

Adjustments may be useful depending upon the pipe/fitting dimensions, appearance and/or the type of processing equipment used.

Extrusion melt temperature 190-220°C

Injection melt temperature 200-260°C

Carbon black is hygroscopic, consequently drying of the compound is required to ensure that the water content does not exceed 300 ppm at the time of processing.

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:

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