

Description

HDPE XS 10 B is a high performance hexene-based black compound, with a MRS 10 MPa - PE 100 classification, and primarily intended for potable water and gas pipe applications.

HDPE XS 10 B key characteristics are

- a superior resistance to slow crack growth and rapid crack propagation ensuring safe and long-term network operation
- a broad bimodal molecular weight distribution offering easy processing for perfect pipes and fittings
- an optimised formulation of additives and finely dispersed carbon black providing outstanding long-term stability in service.

Designation ISO 1872-PE,E/M-ACGHL,50-T003

Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	kg/m ³	959
Melt Flow Rate (190°C/5 kg)	ISO 1133/T	g/10 min	0.3
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

HDPE XS 10 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:

www.totalrefiningchemicals.com

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