

## Description

HDPE 4206 B is a high performance black compound primarily intended for steel pipe coating applications.

HDPE 4206 B key characteristics are

- Superior mechanical properties under stress cracking as well as under impact conditions, ensuring long term integrity of the network
- An optimised additives formulation and finely dispersed carbon black providing outstanding long-term stability in service
- Excellent and durable adhesion properties, particularly in combination with the Trisys® 90 adhesive system
- HDPE 4206 B meets the major requirements in external 3 layer PE coatings: DIN 30 670, NF A 49 710, CAN /CSA-Z245.21, GOST R51164.

Designation ISO 1872-PE,H-ACGHL,40-D003

## Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	kg/m <sup>3</sup>	955
Melt Flow Rate (190°C/5 kg)	ISO 1133/T	g/10 min	2.0
Thermal stability 200°C	EN 728 / ISO 11357-6	min	> 20
Carbon black content	ISO 6964	%	> 2
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 4206 B can be processed under the following recommended conditions

Adjustments may be useful depending upon the type of processing equipment used.

Extrusion melt temperature 210-245°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.