



TotalEnergies

Refining & Chemicals
Polymers

Polyethylene HDPE XRC 20 B

Technical data sheet
High Density Polyethylene PIPES & FITTINGS
Produced in Europe

Description

HDPE XRC 20 B is a very high performance hexene-based black compound, with a MRS 10 MPa - PE100RC classification, particularly appropriate for pressure pipes that are either installed or operated under extreme conditions.

HDPE XRC 20 B key characteristics are :

- an extreme high resistance to crack initiation and to slow crack growth
- meeting the highest prescription and standards for PE pipe
- an easy processing and safe welding properties

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

Characteristics

Property	Method	Unit	Typical value (*)
MRS classification	ISO 12162	MPa	10
Cracked Round Bar test	ISO 18489	10 ⁶ cycles	≥ 1.5
Strain-Hardening test	ISO 18488	MPa	> 53
Accelerated full notch creep test	ISO 16770	h	> 550 (4 MPa)
Density	ISO 1183	kg/m ³	958
Melt Flow Rate (190°C/5 kg)	ISO 1133/T	g/10 min	0.23
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

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.

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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Page 1 of 1

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