

TOTAL Polyethylene MDPE 3802 B (Pipe)

Medium Density Polyethylene

TOTAL Refining & Chemicals

Message:

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.

General Information	
Additive	Carbon Black (2%)
Features	Food Contact Acceptable
	Good Crack Resistance
	Good Flexibility
	Hexene Comonomer
Uses	Fittings
	Piping
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Black
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.90	g/10 min	ISO 1133
Carbon Black Content	2.0 to 2.5	%	ISO 6964
Carbon Black Dispersion	< 3		ISO 18553
Water Content	< 300	ppm	
Thermal Stability ¹ (200°C)	> 20	min	BS EN 728
ISO Shortname	ISO 1872-PE,E/M-ACGHL,40-T012		

Injection	Nominal Value	Unit
Processing (Melt) Temp	200 to 260	°C
Extrusion	Nominal Value	Unit
Melt Temperature	190 to 220	°C

NOTE	
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1. ISO 11357-6

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