



HDPE PE100 Black

PE100 Pipe Compound · Carbon Black

Also traded as CRP100B · Origin: Iran

MFR (190 °C / 5 KG)

0.22 g/10 min

DENSITY

0.957 g/cm³

MRS

10 MPa

CARBON BLACK

2.0 – 2.5 %

PRODUCT DESCRIPTION

PE100 Black is a bimodal high density polyethylene pipe compound with 1-butene comonomer and finely dispersed carbon black. It delivers top-quality PE100 pressure pipes for water and gas at higher pressures or thinner walls than PE80, with long-term UV protection.

- PE100 black compound
- Excellent slow-crack-growth resistance
- UV protected
- OIT > 30 min

PROCESSING GUIDE

Process	Pipe extrusion
Extrusion temperature	190 – 220 °C
Pipe standard	ISO 4427 / EN 12201
Form	Black pellets

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
PHYSICAL			
Melt Flow Rate (190 °C / 5 kg)	ISO 1133	g/10 min	0.22
Melt Flow Rate (190 °C / 21.6 kg)	ISO 1133	g/10 min	6.2
Density	ISO 1183	g/cm ³	0.957
MECHANICAL			
Stress at Yield	ISO 527	MPa	> 23
Strain at Break	ISO 527	%	> 500
Charpy Notched Impact (23 °C)	ISO 179	kJ/m ²	> 23
ESCR (F50, 10% Igepal)	ASTM D1693	h	> 5000
PIPE			
MRS Classification	ISO 9080	MPa	10
Notched Pipe Test (80 °C, 4.6 MPa)	ISO 13479	h	> 500
THERMAL			
Oxidation Induction Time (210 °C)	ISO 11357	min	> 30
PIGMENTATION			
Carbon Black Content	ISO 6964	%	2.0 – 2.5
Carbon Black Dispersion	ISO 18553	grade	< 3

APPLICATIONS



Pipe Extrusion



Water & Gas Mains



Pressure Pipe



Relining

PACKAGING

25 kg PE / woven bags
Palletised or jumbo on request
20' / 40' container loading

SUPPLY

Delivery ex-factory or at border
100% pre-shipment inspection
Full export documentation



Get Today's Price

Scan to request a quote for HDPE PE100 Black on WhatsApp.

+98 912 640 4020

◆ DIRECT SUPPLY FROM IRAN

◆ PREMIUM GRADES

◆ COMPETITIVE PRICES

◆ WORLDWIDE EXPORT

PHONE
+98 21 25903
+98 21 2611 6515

WHATSAPP
+98 912 640 4020
+98 912 859 5812

OFFICE
Pasdaran, Tehran
Iran

WEB
en.rabinpolymer.com
/product/pe100-black-pipe-compound/