

TOTAL Polyethylene XSene® HDPE 4206 B

High Density Polyethylene
TOTAL Refining & Chemicals

Message:

HDPE 4206 B is a high performance black compound intended for steel pipe coating applications.
HDPE 4206 B is also a black high density polyethylene particularly suited for cable sheathing applications and designed to meet the requirements for telecommunication and power cables (medium and high voltage).
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.
A superior resistance to crack formation and growth
A high surface hardness and excellent abrasion resistance.
Low dielectric constant
Easy processing

General Information			
Additive	Carbon Black		
Features	Good Abrasion Resistance		
	Good Adhesion		
	Good Crack Resistance		
	Good Processability		
	High Hardness		
Uses	Cable Jacketing		
	Coating Applications		
	Pipe Coatings		
	Wire & Cable Applications		
Agency Ratings	CSA Z245.21		
	DIN 30670		
	EC 1907/2006 (REACH)		
	GOST R51164		
	NF A 49-710		
Appearance	Black		
Processing Method	Extrusion Coating		
Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.50	g/10 min	
190°C/5.0 kg	1.8	g/10 min	

Environmental Stress-Cracking Resistance (F50)	> 1000	hr	ASTM D1693B
Carbon Black Content	> 2.0	%	ISO 6964
Carbon Black Dispersion	< 3		ISO 18553
Water Content	< 300	ppm	EN 12118
Thermal Stability (200°C)	> 20	min	ISO 11357-6
Designation	ISO 1872-PE, H-ACGHL, 40-D003		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		DIN 53505

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