

INEOS Wire & Cable BPD2008

Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

BPD2008 is an unstabilised and clean low density thermoplastic polyethylene. It is designed for use in Medium/High voltage power cable insulation and applications requesting extra cleanliness using the direct peroxide injection (DPI) process. It is well defined for MDCV equipment thanks to its low sag properties.

BPD2008 meets the following material specification:

ISO 1872/1-PE, KHN, 23-D022

ASTM D-1248 AI 3, Grade E5

Regulations and approvals

Crosslinked cables produced with BPD2008 insulation meet the following industry cable specifications:

IEC 502

AEIC : CS5

EdF: HN 33-S-23

General Information			
Features	Clean/High Purity		
	Crosslinkable		
	Low Density		
Uses	High Voltage Insulation		
	Medium Voltage Insulation		
	Wire & Cable Applications		
Agency Ratings	AEIC CS5		
	ASTM D 1248, I, Class A, Cat. 3, Grade E5		
	EDF HN 33-S-23		
	IEC 60502		
	ISO 1872 PE KHN 23D022		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183/D
Melt Mass-Flow Rate (MFR) ¹ (190°C/2.16 kg)	0.80	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	18.0	MPa	IEC 60811-1-1
Tensile Strain (Break)	> 500	%	IEC 60811-1-1
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	> 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength ²	> 22	kV/mm	ASTM D149

Dielectric Constant (50 Hz)	2.30	ASTM D150
Dissipation Factor (50 Hz)	3.0E-4	ASTM D150
Extrusion	Nominal Value	Unit
Melt Temperature	135 to 145	°C
NOTE		
1.	Condition D	
2.	Method A (Short-Time)	

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