

# INEOS Wire & Cable BPD2070

Low Density Polyethylene

INEOS Olefins & Polymers Europe

## Message:

BPD 2070 is an unstabilised low density thermoplastic polyethylene. It is designed for use in medium voltage power cable one step silane crosslink insulation. BPD 2070 shows good electrical properties and good cleanliness. Provided suitable antioxidant is added by the user and proper processing conditions are adopted, BPD 2070 can be used as the base resin for a thermoplastic high voltage insulation compound. Adequate filtering might be necessary for this high voltage application.

General Information			
Features	Clean/High Purity		
	Crosslinkable		
	Good Electrical Properties		
Uses	Medium Voltage Insulation		
	Wire & Cable Applications		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 5		
	ISO 1872 PE KGN 18D003		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm <sup>3</sup>	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	16.0	MPa	IEC 60811-1-1
Tensile Strain (Break)	600	%	IEC 60811-1-1
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	> 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup>	> 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	230	°C	
NOTE			
1.	Method A (Short-Time)		

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Recommended distributors for this material

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