

INEOS Wire & Cable BPD4035

Medium Density Polyethylene
INEOS Olefins & Polymers Europe

Message:

BPD 4035 is a black medium density polyethylene compound designed for cable jacketing. It contains 2.3% of a well dispersed carbon black and an antioxidant package leading to a complete outdoor weatherability and excellent ageing properties.

BPD 4035 is based on a polymer which offers an excellent resistance to environmental stress cracking, good low temperature properties, and an excellent extrudability.

The polymer density has been chosen near the upper limit of MDPE in order to retain maximum mechanical properties, and resistance to heat deformation.

General Information			
Additive	Antioxidation		
	Carbon black (2%)		
Features	High ESCR (Stress Cracking Resistance)		
	Antioxidation		
	Good weather resistance		
Uses	Cable sheath		
	Wire and cable applications		
Agency Ratings	ASTM D 1248, II, Class C, Cat. 5, Grade W6		
	BS 6234		
	BT M 132		
	CNET CM 24		
	IEC 60502-1		
	IEC 60502-2		
	IEC 60708		
	IEC 60840 Type ST3		
	IEC 60840 Type ST4		
	ISO 1872 PE KLC 40D003		
	REA PE-200, Appendix F		
	REA PE-38		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm³	ISO 1183/D
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.20	g/10 min	ISO 1133

190°C/5.0 kg	0.85	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal, F0)	> 1000	hr	IEC 60811-4-1
Carbon Black Content	2.3	%	IEC 60911-4-1
Retention of Mechanical Properties - 10 days (100°C)	> 75	%	IEC 60811-1-2
Heat Deformation - 6 hr (115°C)		%	IEC 60811-3-1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			IEC 60811-1-1
Yield	18.0	MPa	IEC 60811-1-1
Fracture	34.0	MPa	IEC 60811-1-1
Tensile Strain (Break)	> 600	%	IEC 60811-1-1
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-76.0	°C	ISO 974
Vicat Softening Temperature	116	°C	ISO 306/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Constant (1 MHz)	2.60		ASTM D150
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180	°C	
Cylinder Zone 2 Temp.	190	°C	
Cylinder Zone 3 Temp.	200	°C	
Cylinder Zone 4 Temp.	200	°C	
Melt Temperature	210 - 230	°C	
Die Temperature	210	°C	
Extrusion instructions			

Head Temperature: 210°C/CL/D Ratio: 20:1

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT