

# Polylink Power Cable P-10040-CB

Thermoplastic

Polylink Polymers (India) Ltd.

## Message:

P-10040-CB is a defromation resistant semiconductive compound designed for use as shielding material both for conductor and insulation of power cable core. The compound is characterixed by its good stress crack resistance , balanced, volume, resistance,balanced volume resistivity and excellent proessability.

## APPLICATION :

P-10040-CB is suitable as shielding material for cables up to 33 Kv. It is rated for 90deg.C continuous service and 130 deg.C overload temperature.

General Information			
Features	Semi-conductive		
	Good dimensional stability		
	High ESCR (Stress Cracking Resistance)		
	Electrostatic discharge protection		
	Workability, good		
Uses	Cable sheath		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.91	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal)	> 100	hr	IEC 60811
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	12.3	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	62.0	°C	ASTM D648
Vicat Softening Temperature	96.0	°C	ASTM D1525
Thermal shock-4 hours. (130°C)	No flow / No crack		Internal method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+2	ohms · cm	ASTM D257
Extrusion	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	3.0 - 5.0	hr	
Cylinder Zone 1 Temp.	130	°C	
Cylinder Zone 2 Temp.	140	°C	
Cylinder Zone 3 Temp.	150	°C	
Cylinder Zone 4 Temp.	160	°C	

Adapter Temperature	160	°C
Die Temperature	160	°C
Extrusion instructions		
Screw cooling : 70°C		

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#### Recommended distributors for this material

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