

# ETILINAS BPD 4045

High Density Polyethylene  
POLYETHYLENE MALAYSIA SDN BHD

Message:

ETILINAS BPD 4045 is designed specifically for the jacketing of communication and power cables. It is also recommended for insulation of low voltage aerial cables. It is based on a special high density copolymer with excellent resistance to environmental stress cracking, abrasion, weather and heat deformation. It meets the applicable requirements as below when processed using sound extrusion practice and testing procedure: IEC 60502, ST7; IEC 840; IEC 708; ASTM D1248, Type III, Class C, 5, Grade W8; BS6234: H03C, TS2.

General Information			
Additive	Carbon black (3%)		
Features	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	Good wear resistance		
	Good weather resistance		
Uses	Wire and cable applications		
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.941	g/cm <sup>3</sup>	ISO 1183
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
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	850	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-100	°C	ASTM D746
Vicat Softening Temperature	120	°C	ISO 306/A
CLTE - Flow (20 to 60°C)	1.5E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Dielectric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.60		IEC 60250
Dissipation Factor (1 MHz)	1.0E-3		IEC 60250
Additional Information			
Density of Base Resin , ISO 1183: 941 kg/m <sup>3</sup> Density of Compound, ISO 1183: 952 kg/m <sup>3</sup> Carbon Black Content, ISO 6964: 2.5%Tensile Stress at Yield, IEC 811-1-1: 23 MPaElongation at Break, IEC 811-1-1: >600%Thermal Conductivity, BS 874, 23°C: 0.4 W/m/°COxidation Induction Time, ISO TR10837, 210°C: >20 minEnvironmental Stress Crack Resistance, IEC 811-4-1, F0: >1000 hr			
Extrusion	Nominal Value	Unit	

Melt Temperature	210 - 235	°C
Extrusion instructions		

Suggested Screen Pack: 40/80 Mesh

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