

ETILINAS BPD 4038

Medium Density Polyethylene
POLYETHYLENE MALAYSIA SDN BHD

Message:

ETILINAS BPD 4038 is designed specifically for the jacketing of communication and power cables. It is based on a special high density copolymer with high environmental stress cracking resistance, abrasion resistance, weather resistance and thermal stability. It meets the applicable requirements as below when processed using sound extrusion practice and testing procedure: IEC 708: IEC 6052, ST7; IEC 840; ASTM D1248, Type II, Class C, 5, Grade W6; BS 6234; 03C, TS2.

General Information			
Additive	Carbon black (3%)		
Features	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	Good wear resistance		
	Good weather resistance		
	Thermal stability, good		
Uses	Communication Cable Jacketing		
	Wire and cable applications		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.937	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.30	g/10 min	ISO 1133
190°C/5.0 kg	1.3	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec)	58		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	750	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-100	°C	ASTM D746
Vicat Softening Temperature	116	°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)	2.50		IEC 60250
Dissipation Factor (1 MHz)	1.0E-3		IEC 60250

Additional Information

Density of Base Resin , ISO 1183: 937 kg/m³Density of Compound, ISO 1183: 948 kg/m³Carbon Black Content, ISO 6964: 2.5%Tensile Stress at Yield, IEC 811-1-1: 19 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	200 - 225	°C

Extrusion instructions

Suggested Screen Pack: 40/80 Mesh

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