



BLS POLYMERS LTD.

604, Indra Prakash, 21, Barakhamba Road, New Delhi-110 001

Tel : 011-23310658 / 23755263 Fax : 011-23755264

High Density Polyethylene Compound for Insulation of Telecom Cables

BLS 4444

BLS Polymers Ltd. introduces another sophisticated compound manufactured incorporating the best additives for enhancement of insulation properties for core insulation of copper conductor of Jelly Filled Cables and RG 5 and RG 6 type coaxial cable Grade BLS 4444. This compound meets the stringent quality requirement for Communication & Coaxial Filled / Unfilled Cables.

TYPICAL PROPERTIES

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
Density	GM / CC	ASTM D 1505	0.952
Melt Flow Index (190°C, 2.160 Kg of Load)	GM / 10 Mnts	ASTMD-1238	0.5
Tensile Strength	Kg / Cm ²	ASTMD 638	240
Elongation at Break	%	ASTMD 638	800
O.I.T.	Minutes	ASTMD 3895	> 60
ESCR	hrs	ASTM D-1693	No Cracks in 48 hrs
Moisture Content	%	ASTMD 817	0.02
Dielectric Strength	KVmm	ASTMD 149	23
Dielectric Constant (Permittivity @ 1MHZ)	-	ASTMD 150	2.30
Volume Resistivity	Ohms - cm	ASTMD 257	> 5 X 10 ¹⁵
Dissipation Factor (Power factor @ 1MHz)		ASTMD 150	0.0004
Thermal Stress Cracking For 96 hrs. at 100°C	-	ASTMD 2951	No visible crack
Brittleness Temperature	°C	ASTMD 746	> -76

Specification

It complies with ASTM D 1248 Type III Class A, Category 4, 5 Grade E 8, E9, BS 6234 Type H03, TEC DOT India Specification, IEC 60708

Processing Condition

It is advisable to preheat the BLS 4444 at 80°C for 2-3 hours at the time of use for best results.

BLS 4444 can be processed in standard PE extruder with L/D ratio minimum 24 :1, with a compression screw of 1: 3 for best results.



BLS POLYMERS LTD.

604, Indra Prakash, 21, Barakhamba Road, New Delhi-110 001

Tel : 011-23310658 / 23755263 Fax : 011-23755264

Conductor Preheating Temperature 100 -120°C

Suggested Temperature Profile

165/175/185/200/215//220/230/230 °C

First zone of cooling water trough should be maintained between 50-60°C

Air gap should be adjusted for maintaining low shrinkage

Packing

BLS 4444 is available in 25 kg bags, 25 kg bags in pallet, 600 kg Jumbo Bag

The information contained in this leaflet is to the best of our knowledge true and accurate, but any recommendation or suggestion, which may be made, is without guarantee, since the condition of use are beyond our control. We expressly disclaim liability incurred in connection with the use of these data for suggestions.