



BLS POLYMERS LIMITED

HIGH DENSITY POLYETHYLENE BLACK COMPOUND FOR OPTICAL FIBRE CABLES

Grade : BLS 8888 OFC

BLS Polymers Ltd. introduces another sophisticated compound for sheathing of Optical Fiber Cables – BLS 8888 OFC. This compound meets the stringent quality requirements for Optical Fiber Cables sheathing and jacketing. It meets the requirements of raw material for manufacturing of OFC as per TEC, DOT, India, ASTM 1248.

TYPICAL PROPERTIES:

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
Density	gm / cc	BS 2782 Part 6 (Method 620A-620 d) (IS 3395 or ASTM D 792)	0.954
Melt Flow Index (190°C, Load of 2.16 Kg)	gm / 10 min	BS 2782 Part (Method 720 A)	0.4
Tensile Strength	Kg / mm ²	ASTM D 638	245
Elongation at Break	%	ASTM D 638	700
Carbon Black Content	%	ASTM D 1603 IS 2530 (P:10)	2.5
Carbon Black Dispersion			
(a) Rating		BS Standard Method IS 7328-1992 Annx. B	3
(b) Uniformity of appearance			Satisfactory Better than 'A' of figure 1
(c) Carbon Black Dispersion		Point	7
Ceka Softening Point	° C	ASTM B 1525	114
O.I.T.	Minutes	ASTM D 3895 TEC SPEC GR/ORM-01/03 MAR 2004	40
ESCR,F0		ASTM D-1693	No Cracks observed

.			Upto 520 hours
Moisture Content	%	ASTM D-817	0.02
Dissipation factor tan d		ASTMD 150	0.005
Volume Resistivity	ohm-cm	ASTMD 257	1 X 10 ¹⁵
Relative Permittivity		ASTM D 150	≤ 2.3
Di-electric Constant		ASTM D 150	2.60
Dielectric Strength	Mv/mm	ASTM D 149	25
Absorption Coefficient @ 400 nm	kAB/m	ASTM D 3349	PASSES
Brittleness Temperature, -76degC		ASTM D 746	PASSES

PROCESSING CONDITION

It is advisable to preheat the **BLS 8888 OFC** at 80°C for 2-3 hours at the time of use for best results.

BLS 8888 OFC can be processed in standard PE extruder with L/D ratio minimum 24:1, with a compression screw of 1: 3 for best results.

Recommended Temperature Profile : As a start up we suggest use

170/185/190/205/220//230/240/250/245 ° C

However, actual temperature profile will depend upon the screw compression ratio, L/D ratio.

PACKING

BLS 8888 OFC is available in 25 Kg. bags, 25 Kg. bags Palletized in wooden pallet, 600 Kg. Jumbo Bags

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.

BLS POLYMERS LIMITED, 604, INDRAPRAKASH BUILDING, 21, BARAKHAMBA ROAD, NEW DELHI -110001 INDIA
Tel: 91-11-23755263, 23715295, Fax:91-11-23755264
Email: blspoly@blsgroup.in, www.blspolymers.com