



BLS POLYMERS LIMITED

MEDIUM DENSITY POLYETHYLENE COMPOUND FOR SHEATHING & JACKETING OF MEDIUM AND HIGH VOLTAGE POWER CABLES

GRADE BLS 3333

BLS Polymers Ltd. introduces another sophisticated compound for sheathing and jacketing of high and medium voltage power cables. This compound meets the stringent quality requirement of mechanical and termite protection of outer sheath of power cables. The product is made from bimodal PE and is stabilized with sufficient quantity of antioxidants and stabilizers for long term use. Material meets the requirements as per IEC 60502 Type ST 7.

TYPICAL PROPERTIES:

PROPERTY VALUE	UNIT	TEST METHOD	TYPICAL
Density	gm / cc	ASTM D 1505	0.945
Melt Flow Index (190°C, 2.160 Kg Load)	gm / 10 mnts	ASTMD-1238	0.6
Tensile Strength	kg / cm ²	ASTMD 638	250
Elongation at Break	%	ASTMD 638	800
Retention of Tensile Strength & Elongation at Break after Ageing at 100°C for 10 days O.I.T.	% Minutes	ASTM D 638 ASTMD 3895	> 85% ≥ 60
ESCR	hours	ASTMD 1693	> 500
Moisture Content	%	ASTMD 817	0.02
Dielectric Strength	kv/mm	ASTMD 149	23
Dielectric Constant (Permittivity @ 1MHZ)		ASTMD 150	2.55
Volume Resistivity	Ohms – cm	ASTMD 257	≥ 1 X 10 ¹⁵
Dissipation Factor	MHz	ASTMD 150	0.002

(Power factor @ 1MHz)			
Thermal Stress Cracking	-	ASTMD 2951	No visible crack for 96 hrs. at 100°C
Carbon Black Content	%	ASTMD 1603	2.5
Shrinkage Test (at 80°C for 5 hours 5 cycles)	%		2
Pressure Test at 115°C	%		35

Also available in Orange, Yellow, Blue, Green and Red colour with UV Stabilizers

PROCESSING GUIDELINE

We recommend that material is pre-dried at 80° C for 4 hours for best performance.

As a start up we suggest set the following temperature profile

170/185/190/205/220//230/240/250/245 ° C with minimum draw down ratio between 1:1.2 for pressure tooling. For tube tooling draw down ratio between 2 to 8 is recommended.

However, actual temperature profile will depend upon the screw compression ratio, L/D ratio, type of extrusion sleeve or pressure.

PACKING

BLS 3333 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).

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