TECHNICAL DATA SHEET

Jan. 25

BLS A3 3193
PVC COMPOUND FOR CABLE SKIN INSULATION

DESCRIPTION

BLS Polymers Ltd. introduces compound for insulation of Cables – **BLS A3 3193** Compound for skin insulation of cables with maximum operating temperature of 70ºC and minimum -15ºC. This compound meets the stringent quality requirements for manufacturing of skin (thin) insulation for various types of wires and cables at high line speeds and provides protection against moisture and abrasion.

STANDARD COMPLYING

BLS A3 3193 Compound meets the requirements of raw material for manufacturing of Type A Insulation as per ASTM, EN 50525-2-31, BS7655 Sec 3.1(TI1), IEC 60502-1(Type A) and IS 694 and IS 5831.

SPECIAL FEATURES

BLS A3 3193 Compound provide very effective features as:

- Good mechanical properties
- High line speed
- Easy processability
- Easy color-ability

TECHNICAL CHARACTERISTICS

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Density	ASTM D 792	gm/cc	1.31±0.02
Tensile Strength at Break	IS 10810-P7, IEC 60811-1-1	MPa	≥19
Elongation at Break	IS 10810-P7, IEC 60811-1-1	%	≥350
Mechanical properties after ageing at 80±2ºC for 7 days			
Variation of Tensile Strength at Break	IS 10810-P11, IEC 60811-1-2	%	±20
Variation of Elongation at Break	IS 10810-P11, IEC 60811-1-2	%	±20
Loss of Mass at 80±2°C for 7 days	IS 10810-P10, IEC 60811-3-2	Mg/cm2	≤ 2.0
Thermal stability 200°C±0.5°C	IS 10810-P60, IEC 60811-3-2	Minute	≥ 110
Hardness	ASTM D 2240	Shore A	93±2
Volume Resistivity at 23ºC	ASTM D 257	ohm-cm	> 1 X 10^14
Limited Oxygen Index	ASTM D 2863	%	>26

*Tests have been carried out on extruded sample/pressed sheet from granules of **BLS A3 3193**.

It is also available in Black and Colored, UV Stabilized variant. Preliminary tests are recommended in case of critical applications.

TECHNICAL DATA SHEET

Jan. 25

PROCESSING GUIDELINES

BLS A3 3193 Compound can be processed in a normal PVC extruder with L/D ratio 24:1. Preheating of Granules at 70ºC for 2 hours is recommended. Suggested temperature profile for processing:

Extruder Zones Temperature profile

Zone 1	Zone 2	Zone 3	Zone 4	Head	Neck & Die
140±5ºC	150±5ºC	160±5ºC	165±5ºC	170±5ºC	170±5ºC

STORAGE

BLS A3 3193 Compound must be stored in ambient temperature (not exceeding 35ºC) in a shaded area in sealed and intact bags to avoid exposure to sunlight and moisture. The shelf life of this compound is twelve months but long storing may affect the properties and processability of the compound and for this reason it should be used within 6 months from the manufacturing date. It is better to preheat the material before use.

PACKING

BLS A3 3193 Compound is available in 25 kg bags with liners and 1000 kg Bulk bags. Other packaging is available on request.

We offer our Technical Services for further information and suggestion in using the product from the beginning and also for any need during the course of the product being used.