TECHNICAL DATA SHEET

Jan. 25

BLS A3 Type A 4588
PVC COMPOUND FOR INSULATION

DESCRIPTION

BLS A3 Type A 4588 is a PVC Compound designed to be used for insulation application of energy/power cables & wires and is RoHS compliant. This compound meets the stringent quality requirements of general-purpose insulation.

STANDARD COMPLYING

BLS A3 Type A 4588 is recommended for general purpose insulation.
It meets the requirements of raw material for manufacturing of cables as per IS 5831-Type A, BS 7655 - Type TI 1.

SPECIAL FEATURES

BLS A3 Type A 4588 provide very effective features as:

- Good mechanical properties
- High line speed
- Easy processability
- Easy colourability

TECHNICAL CHARACTERISTICS

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Density	ASTM D 792	gm/cc	1.45±0.02
Tensile Strength at Break	IEC 60811-1-1	MPa	≥13
Elongation at Break	IEC 60811-1-1	%	≥200
Mechanical properties after ageing at 80±2ºC for 7 days			
Variation of Tensile Strength at Break	IEC 60811-1-2	%	±20
Variation of Elongation at Break	IEC 60811-1-2	%	±20
Loss of Mass at 80±2°C for 7 days	IEC 60811-3-2	Mg/cm2	≤ 2.0
Cold Elongation (at -15±1°C)	IEC 60811-1-4	%	>30
Cold Bend (at -15±1°C)	IEC 60811-1-4	--	No Cracks
Cold Impact (at -15±1°C)	IEC 60811-1-4	--	Pass
Heat Shock test (at 150±2°C)	IEC 60811-3-1	--	No Cracks
Hot Pressure test (at 80±2°C, 4 hr)	IEC 60811-3-1	%	≤50
Shrinkage	IEC 60811-1-3	%	≤ 4
Thermal stability 200°C±0.5°C	IEC 60811-3-2	Minute	≥ 90
Hardness	ASTM D 2240	Shore A	88±2

*Tests have been carried out on extruded sample/pressed sheet from granules of **BLS A3 TYPE A 4588**.

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

PROCESSING GUIDELINES

BLS A3 TYPE A 4588 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	165±5ºC	170±5ºC	180±5ºC	180±5ºC

STORAGE

BLS A3 TYPE A 4588 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 TYPE A 4588 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.