



16E Tuas Avenue 1, #05-61, JTC Space@Tuas Singapore 639537. Tel: +65 6397 5001

TECHNICAL DATA SHEET

SYNFLAME B9L-9050 UV

Low Smoke, Halogen Free, Flame Retardant, Thermoplastic.

APR 2024

PROVISIONAL: REV. 01

DESCRIPTION

SYNFLAME B9L-9032 UV is a low smoke, halogen-free (LSZH / LSOH), flame-retardant compound produced using a unique non-toxic, non-hazardous and good processable formulation based. It provides ultra high flame resistance, excellent UV and weather stability. Besides, smoke generation is greatly reduced with good self-extinguish properties in wires and cables application. This product is environmental friendly, ROHS compliance and causes no pollution.

Standard compliance:

IEC 60502-1 ST8, BS 7655 LT1, LT2, LT3, LT4.

CHARACTERISTIC	UNIT	TYPICAL VALUE	METHOD
Physical			
Density at 23°C	g/cm ³	1.6	ASTM D792
Melt Flow index, 150°C/21.6 kg ⁽²⁾	g/10min	3	ASTM D1238
Shore D Hardness	-	55	ISO 868
Appearance	-	Granule	Visual
Colour	-	Off-white	Visual

APPLICATIONS

1. Use for W&C flexible insulation and sheathing.
2. Suggested for standard wall thickness.
3. EVA or PE based color masterbatches added at 1.2-1.5% by weight are suggested.
4. It is recommended that all master-batches should be thoroughly dried at the recommended temperature and time defined by the supplier.



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PROCESSING

1. An extruder with an L/D ratio (length/diameter) of 25 and an extruder screw with a low compression ratio 1.2 – 1.4 are recommended.
2. Do not use screw thermoregulation.
3. Filter net: normally not necessary.
4. Semi-compression or tubing tools are suggested. If tubing tools are used, D.D.R. should not exceed 1.5.
5. It is important that the melt temperature is not allowed to rise above 230°C. As a guide the following temperature profile is recommended.

Zone 1	Zone 2	Zone 3	Zone 4	Collar	Crosshead	Die
130-150°C	130-160°C	140-160°C	140-160°C	150-170°C	150-170°C	150-180°C

Notes:

This profile will vary slightly depending on extruder type, head design and output.

STORAGE AND SHELF LIFE

Synflame B9L-9050 UV normally has 12 month shelf life from the date of manufacture. However, the following precautions should be observed.

- Packaging should remain sealed
- Avoid storage outside and in direct sunlight
- Use within 8 hours of opening packaging

Synergychem PTE LTD accepts no liability of any kind in case the above mentioned conditions are not fulfilled.

TRANSPORT

Not regulated for the transportation.

PACKAGING

Product is available in 25kg moisture resistance bag on pallet. Different packages are available on customer request. Product is stable if maintained in the original sealed bag and under ordinary storage conditions.

Normal precautions to a good industrial hygiene and safe working place are, generally, sufficient in handling the preparation, however all operators are kindly requested to handle, use and dispose all wastes of the preparation in accordance with the information reported on SDS.