



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

TECHNICAL DATA SHEET
SYNTHANE A8L-2895HM
RoHS compliant, Thermoplastic Polyester-based
Polyurethane.

APR 2024

PROVISIONAL: REV. 01

DESCRIPTION

SYNTHANE A8L-2895HM is a RoHS compliant, high performance polyester-based polyurethane with good processability for half matt requirement use for sheathing and jacketing for telecommunication cables and wire. Aside from good mechanical properties, this product is environmental friendly and causes no pollution.

PHYSICAL PROPERTIES	TEST METHODS	TYPICAL VALUES	UNITS
Appearance		Granule	-
Colour	-	Natural	-
Density (23°C)	ASTM D792	1.19	g/cm ³
MECHANICAL PROPERTIES			
Tensile Strength	ASTM D412	28	MPa
Elongation at break		650	%

Notes:

(1) Typical properties are not to be construed as specification. Tests reported are performed on pressed or extruded specimens.



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APPLICATIONS

1. Use for W&C flexible insulation and jacketing.
2. Suggested for standard wall thickness.
3. Synthane TPU are hygroscopic and should be pre-dried before use. Recommended drying temperature is at 90 – 100 ° C for 3 to 5 hours. The moisture content shall be below 0.05 %.
4. It is recommended that all master-batches should be thoroughly dried at the recommended temperature and time defined by the supplier.

PROCESSING

1. An extruder with an L/D ratio (length/diameter) of 26 to 32 and an extruder screw with a compression ratio 2.1 – 3.1 are recommended.
2. Depending on the size and type of screw and die, the recommended diameter of breaker plate hole is 1.5 to 5 mm.
3. Low rpm during processing as TPU is shear sensitive.

Zone 1	Zone 2	Zone 3	Zone 4	Collar	Crosshead	Die
160-170°C	170-175°C	170-180°C	170-180°C	170-180°C	170-180°C	170-180°C

Notes:

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

STORAGE AND SHELF LIFE

Synthane A8L-2895HM 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.