

SONGSTOMER™ P-9290A TPU

Technical Information

1. **Components** : Polyether type Thermoplastic Polyurethane Elastomer (TPU)

2. Properties

Physical Properties	Test Method	Units	Value
Hardness	ASTM D2240	Shore A	90
Specific Gravity	ASTM D792	g/cm ³	1.22
Tensile Strength	ASTM D412	kgf/cm ² MPa	350 34
Tensile Stress at 100% Elongation	ASTM D412	kgf/cm ² MPa	65 6.5
Tensile Stress at 300% Elongation	ASTM D412	kgf/cm ² MPa	140 14
Ultimate Elongation	ASTM D412	%	550
Tear Strength	ASTM D624	kgf/cm N/mm	100 98

* The above are typical values and should not be used as specifications.

3. Characteristics & Usages

- Blown film extrusion
- High moisture vapor transmission

4. Processing

- Extrusion conditions

Zone 1	Zone 2	Zone 3	Adapter	Die
195°C	200°C	205°C	210°C	205°C

* L/D : 26-30, Compression ratio : 2.5-3.5

5. Drying

- SONGSTOMER™ TPU products must be dried before processing.
- Recommended drying conditions: 70-80°C for 3-4 hours in a dehumidifying dryer.
- The moisture content should not exceed 0.05%.
- Avoid unnecessarily prolonged drying periods to prevent any TPU discoloration.

6. Storage

- SONGSTOMER™ TPU products are supplied in pellet form.
- The materials are packed in 25kg, aluminum-polyethylene bags.
- The materials must be stored in a cool and dark place.
- Once open, reseal the bags to protect the contents.