



Technical Data Sheet

Product Name
TPE compounds

Product Type

Polyethylene Compound

Product Grade

10901CLA

Product Description

10901CLA is a thermoplastic elastomer derived from polyolefin raw materials. This product is specifically designed for continuous compression molding and is formulated for use as a gasket material in metal crown caps for beverage applications.

Typical Application

- Pasteurization process
- Beverage: Carbonate soft drink, Alcohol beverage with less than 20% alcohol content

Product Characteristics

- Excellent process ability and good sealing property
- Non heavy metal

International Compliance

- European Commission Regulation (EU) No.10/2011 **
- US FDA 21 CFR 177.1210 ***
- Notification of the Ministry of Public Health (No.435) B.E. 2565 (2022) (List no.1)

*Overall migration in 3% acetic acid, 10% ethanol, 50% ethanol under OM3

**Specific migration of heavy metal and PAAs under OM3

***120°F and 150°F for 2 hours (Distilled water, 8% alcohol)

Physical Properties

Properties	Test Method	Typical Value	Unit
Specific Gravity	ASTM D 792	0.93	-
Hardness Shore A @15 sec	ASTM D 2240	95	
Tensile Strength	JIS K6723	147	kgf/cm ²
Elongation at Break	JIS K6723	652	%
Melt Flow Rate at 190 °C and 2.16 kg	ASTM D 1238	6.3	g/10 min

Note: • The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.

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Processing Guidelines

The actual processing condition depends on each extruder machine type, screw type and also output needed etc. Generally, temperature at extruder should be around 100-150°C as sequence from feed throat to die head. The exceed temperature than 190°C might affect to appearance, color and typical property.

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products, contact your SCG Chemicals technical services at the address as specified below.

Product Available Form

- Pellet

Product Packaging

- 20 kg loose bag
- 900 kg Octabin box

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Co., Ltd.
- Product(s) should be stored in dry and dust free location at temperature below 50 °C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.
- Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

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