

# SI5220

# Injection

TDS-PE-208-SI5220-02

### Product Description:

**Asrene® SI5220** is a Bimodal HDPE resin which is supplied in natural pellet form and suitable for injection molding, lids and bottle closures, masterbatch and powder coating, toys, housewares and trash cans requiring high flow properties, excellent mold-ability and toughness.

### Product Characteristics:

- Excellent mold-ability
- Excellent toughness
- Medium flow properties
- Non UV stabilized

### Applications:

- Injection molding
- Lids and bottle closures
- Masterbatch and powder coating
- Toys, housewares and trash cans

Physical Properties	Test Method*	Unit	Value
Density	ASTM D 1505	g/cm <sup>3</sup>	0.955
Melt Index (190 °C/2.16 kg)	ASTM D 1238	g/10 min	20
Vicat Softening Temperature	ASTM D 1525	°C	124
Melting Temperature	ASTM D 3418	°C	132
Brittleness Temperature	ASTM D 746	°C	< -70
ESCR [Condition B, Igepal 10%, F <sub>50</sub> ]	ASTM D 1693	Hrs	15
Tensile Strength @Yield	ASTM D 638	MPa	27
Elongation @Break	ASTM D 638	%	450
Flexural Modulus	ASTM D 790	MPa	850
Izod Impact Strength	ASTM D 256	J/m	100

\*Polyethylene tested per ASTM D 1928

Conversion: 1 MPa = 10.2 kgf/cm<sup>2</sup>  
1 kJ/m<sup>2</sup> = 10.2 J/m

### Recommended Processing Conditions:

Melt Temperature.....175-225 °C

### Product Available Form:

Natural pellet

### Packaging:

25 kg in FFS PE-bag

### Safety:

- The product is not classified as a hazardous material.
- Please refer to our Safety Data Sheet (SDS) for details on various aspects of safety, recovery and disposal of the product.



### High Density Polyethylene

### Technical Data Sheet (TDS) Provisional

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#### Storage:

- 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, food and drink, as this may lead to quality deterioration, which results in odor generation and color changes and can have negative effects on the physical properties of this product.
- Keep packaging tightly closed and sealed until ready for use. Packaging that has been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled packaging. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.
- Please refer to our Safety Data Sheet (SDS) for details on storage and handling of the product.

#### Regulatory:

- This material complies with recommendations and statutory regulations regarding packaging materials intended to come in contact with foodstuff, such as:
  - FDA Regulation 21 CFR177.1520
  - Commission Regulation EU No.10/2011
  - BPOM Regulation No.20 year 2019
  - Halal Certificate from The Indonesian Council of Ulama
  - SNI No. 7808:2022
- Please refer to our Regulatory Data Sheet (RDS) for details on various aspects of regulatory of the product.

#### Product Stewardship:

PT Chandra Asri Pacific, Tbk. (CAP) has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our Product Stewardship philosophy by which we assess the safety, health and environmental information on our products and then take appropriate steps to protect employee, public health and environment. The success of our Product Stewardship program rests with each and every individual involved with CAP products – from the initial concept and research, to manufacture, storage, sale, use and disposal of each product.

#### Disclaimer:

The nominal properties reported herein are typical on the product of CAP but do not reflect normal testing variance and therefore should not to be construed as specifications.

CAP reserves the right to make any improvement or amendments to the composition of any grade or product without alteration to the product code.

This document reports accurate and reliable information to the best of our knowledge on the products manufactured by CAP. Since CAP cannot anticipate or control the conditions under which this information and its product may be used, each user should review the information in the specific context of the intended application. CAP will not be responsible for damages of any nature resulting from the use of or reliance upon the information.

This technical datasheet is effective as from **Oct 2024** and supersedes all data previously published.

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QMS ISO	9001
EMS ISO	14001
OHSMS ISO	45001