

Luran SAN W  
Styrene Acrylonitrile (SAN)TECHNICAL  
DATASHEET

## FEATURES

- Excellent transparency
- Ultra high flow
- crystal clear
- Food contact
- Good surface appearance

## APPLICATIONS

- Cosmetic packaging
- Cosmetic jars
- Stationery
- Water containers
- Household appliances

| Property, Test Condition                                      | Standard    | Unit       | Values    |
|---------------------------------------------------------------|-------------|------------|-----------|
| Rheological Properties                                        |             |            |           |
| Melt Volume Rate 220 °C/10 kg                                 | ISO 1133    | cm³/10 min | 60        |
| Mechanical Properties                                         |             |            |           |
| Izod Notched Impact Strength, 23 °C                           | ISO 180/A   | kJ/m²      | 1.8       |
| Tensile Strain at Break, 23 °C                                | ISO 527     | %          | 2.1       |
| Tensile Modulus                                               | ISO 527     | MPa        | 3600      |
| Flexural Strength, 23 °C                                      | ISO 178     | MPa        | 115       |
| Flexural Modulus, 23 °C                                       | ISO 178     | MPa        | 3600      |
| Hardness, Rockwell                                            | ISO 2039-2  | R scale    | 124       |
| Thermal Properties                                            |             |            |           |
| Vicat Softening Temperature, B/2 (120 °C/h, 50N)              | ASTM D 1525 | °C         | 101       |
| Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)  | ISO 75      | °C         | 90        |
| Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa) | ISO 75      | °C         | 95        |
| Optical Properties                                            |             |            |           |
| Light Transmission at 550 nm                                  | ASTM D 1003 | %          | 89 - 90   |
| Other Properties                                              |             |            |           |
| Density                                                       | ISO 1183    | kg/m³      | 1070      |
| Processing                                                    |             |            |           |
| Linear Mold Shrinkage                                         | ISO 294-4   | %          | 0.3 - 0.4 |

Typical values for uncolored products

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### SUPPLY FORM

Luran is delivered in the form of cylindrical and lenticular pellets. The bulk density of the pellets is from 0.55 to 0.65 g/cm<sup>3</sup>. Values may differ for special grades. Standard Packaging unit: 25 kg paper bag. In addition, delivery in larger units of up to 1000 kg (IBC = Intermediate Bulk Container) or silo trucks can be arranged. In dry areas with normal temperature control, Luran pellets can be stored for relatively long periods of time without any change in mechanical properties. With unstable colors, however, storage over a number of years can give rise to some change in color. Under poor storage conditions, Luran absorbs moisture, but this can be removed by drying.

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