INEOS
Styrolution

# LURAN® S MED 797S SPF30

A new ASA MED grade for small medical device housings


Luran® S MED 797S is INEOS Styrolution's new ASA grade with excellent chemical resistance, and superior technical properties, especially designed for small medical housings.


# LURAN® S MED 797S SPF30

## Key properties

- Regulatory compliant
  ISO 10993-5 (cytotoxidity)/
  10 (hypersensitivity)
- Strong environment stress cracking resistance (ESCR)
- High impact strength
- Superior long term UV protection
- Notificaton of Change (NoC)
  for up to 12 months possible*
- Available based on renewable feedstock

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## The new solution for your medical device housing

The new Luran® S MED 797S SPF30 is a member of INEOS Styrolution's ASA product family Luran® S. It excels with strong product properties such as chemical resistance, UV resistance, and impact strength. Being a grade suitable for injection moulding applications, it offers an excellent flowability for easy processing. The grade is regulatory compliant with ISO 10993-5/10 and comes with a notification of change (NoC) commitment up to 12 months*.

Luran® S MED 797S SPF30 shows excellent chemical resistance against alcohols e.g. isopropyl alcohol (IPA), ethanol alcohol (EtOH), propanol, or alcohol based disinfectants. It also shows good resistance against quaternary ammonium or glutaral based disinfectants making it a material of choice for clinical environments.

* with signed long term supply contract

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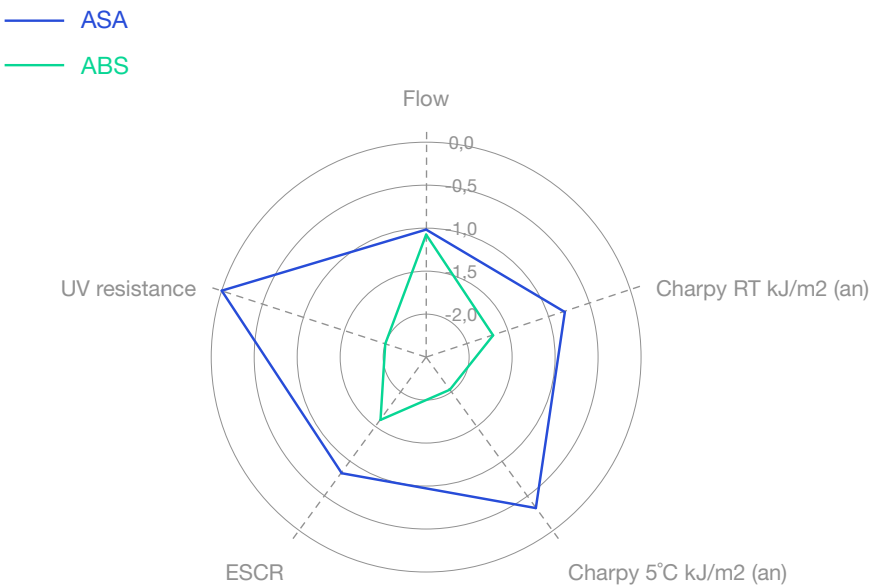
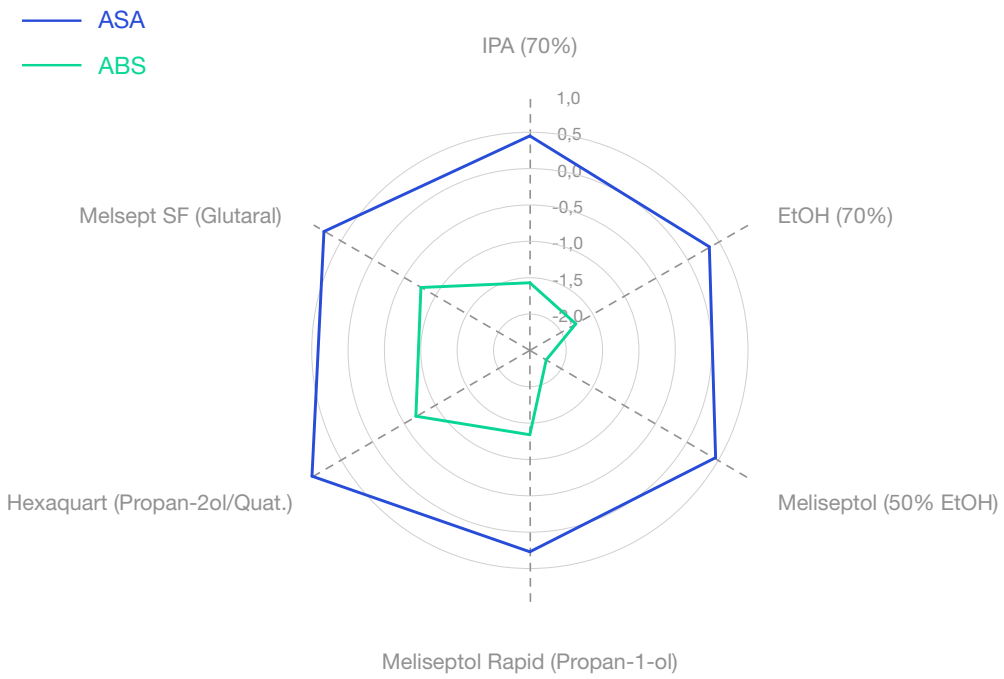
## Technical properties




Data points indicate that impact strength and environment cracking resistance (ESCR) are superior to those of ABS.

The high impact strength specifically at room temperature (RT) and at lower temperatures (5°C) contribute to a better protection of devices, e.g. avoiding cracking failures when a device drops to the floor. This particular material performance makes Luran® S MED 797S SPF30 a strong alternative to standard ABS materials.

## ESCR performance




Data point values on the positive scale represent superior chemical resistance.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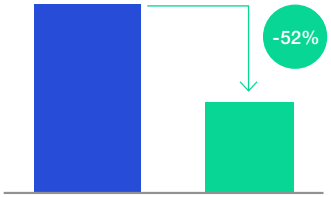
## Bio-attributed Luran® S ECO MED 797S SPF30 BC40

Luran® S ECO is made using renewable feedstock, based on a mass balance process certified under ISCC PLUS by a third party. Luran® S ECO MED 797S SPF30 BC40 is available with a renewable content of 40%. This results in a carbon footprint reduction of up to 52% compared to fossil-based Luran® S.

Luran® S ECO's feedstock sources, supply chain and production processes have been awarded ISCC PLUS certification and comply with the highest sustainability certification criteria.

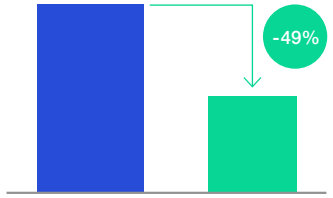
Luran® S MED 797S SPF30 NR




Luran® S ECO MED 797S SPF30 BC40

INEOS Styrolution eco

Luran® S MED 797S SPF30 White WT000112




Luran® S ECO MED 797S SPF30 BC40

Cradle-to-gate greenhouse gas emissions associated with production of Luran S and Luran S ECO grades containing bio-attributed feedstock vs conventional reference grades [t $CO_2$-eq/t product]. Data assessed by 3rd party.

## Technical data – Luran® S MED 797S SPF30

| | Standard | Unit | Values |
|---|---|---|---|
| **Property** | | | |
| Charpy Notched Impact Strength, 23°C | ISO 179/1eA | kJ/m² | 40 |
| Charpy Notched Impact Strength, 5 °C | ISO 179/1eA | kJ/m² | 13 |
| Charpy Notched Impact Strength, -30 °C | ISO 179/1eA | kJ/m² | 9 |
| Melt Volume Rate 220°C/10kg | ISO 1133 | cm³/10 min | 5.5 |
| Tensile Modulus | ISO 527 | MPa | 2000 |
| Vicat Softening Temperature, VST/B/50 (50N, 50°C/h) | ISO 306 | °C | 90 |
| Heat Deflection Temperature A; (annealed 4h/80°C, 1.8 MPa) | ISO 75 | °C | 95 |
| **Processing** | | | |
| Melt Temperature Range | ISO 294 | °C | 240 - 280 |
| Mold Temperature Range | ISO 294 | °C | 40 - 80 |
| Drying Temperature | - | °C | 80 |
| Drying Time | - | h | 2 - 4 |
| Molding shrinkage, free, longitudinal | - | % | 0.4 - 0.7 |

Typical values for uncoloured products
Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities. Please consult our local sales or technical representatives for details.

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