

Luran S 779V

Acrylonitrile Styrene Acrylate (ASA)

TECHNICAL DATASHEET

DESCRIPTION

Luran® S acrylonitrile styrene acrylate (ASA) polymers feature high surface quality and good impact strength including enhanced color fastness. The products deliver superior long-term performance when exposed to UV irradiation and additionally provide excellent chemical resistance. Luran® S 779V is an injection molding grade with enhanced heat resistance.

FEATURES

- Heat resistance
- Chemical resistance
- Long-term property retention
- UV resistance

APPLICATIONS

- Automotive rear lamp housing
- Automotive exterior trim: mirror housings, exterior pillars and trims, spoilers
- Housings for electrical and electronic devices

| Property, Test Condition | Standard | Unit | Values |
|--|-------------|-------------------------|--------|
| Rheological Properties | | | |
| Melt Volume Rate 220 °C/10 kg | ISO 1133 | cm ³ /10 min | 6 |
| Mechanical Properties | | | |
| Charpy Notched Impact Strength, 23 °C | ISO 179/1eA | kJ/m ² | 10 |
| Charpy Notched Impact Strength, -30 °C | ISO 179/1eA | kJ/m ² | 2 |
| Tensile Modulus | ISO 527 | MPa | 2600 |
| Tensile Stress at Yield, 23 °C | ISO 527 | MPa | 50 |
| Tensile Strain at Yield, 23 °C | ISO 527 | % | 3.5 |
| Nominal Strain at Break, 23 °C | ISO 527 | % | 20 |
| Flexural Modulus, 23 °C | ISO 178 | MPa | 3000 |
| Flexural Strength, 23 °C | ISO 178 | MPa | 97 |
| Izod Notched Impact Strength, -40 °C (-40 °F) | ASTM D 256 | kJ/m ² | 0.5 |
| Flexural stress at yield | - | MPa | 100 |
| Thermal Properties | | | |
| Vicat Softening Temperature VST/B/50 (50N, 50 °C/h) | ISO 306 | °C | 110 |
| Heat Deflection Temperature A; (unannealed; 1.8 MPa) | ISO 75 | °C | 100 |

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| Property, Test Condition | Standard | Unit | Values |
|--|----------|-------------------|--------|
| Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h) | ISO 306 | °C | 200 |
| Other Properties | | | |
| Density | ISO 1183 | kg/m ³ | 1.07 |