

Luran S MED 797S

Acrylonitrile Styrene Acrylate (ASA)

TECHNICAL DATASHEET

DESCRIPTION

Luran® S acrylonitrile styrene acrylate (ASA) polymers feature high surface quality and good impact strength including enhanced colour fastness. The products deliver excellent environment stress cracking resistance (ESCR) and superior long-term performance when exposed to UV irradiation. Luran® S MED 797S is an injection molding grade especially designed for small medical housings.

FEATURES

- Strong environment stress cracking resistance (ESCR)
- Superior long-term UV protection
- High impact strength
- Regulatory compliant with ISO 10993-5/10
- Notification of change (NoC) commitment of up to 12 months possible

APPLICATIONS

- Medical housings
- Blood pressure meters
- Digital thermometers
- Glucometers
- Injection pens
- Oximeters

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	5.5
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	40
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m ²	9
Tensile Modulus	ISO 527	MPa	2000
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	88
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	95
Other Properties			
Density	ISO 1183	kg/m ³	1070
Processing			
Melt Temperature Range	ISO 294	°C	240 - 280
Mold Temperature Range	ISO 294	°C	40 - 80
Drying Time	-	h	2 - 4

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Property, Test Condition	Standard	Unit	Values
Drying Temperature	-	°C	80
Molding shrinkage, free, longitudinal	-	%	0.4 - 0.8