

Luran® S MED 797S

ASA

INEOS Styrolution

Luran® S MED 797S acrylonitrile styrene acrylate (ASA) polymer features high surface quality and good impact strength including enhanced colour fastness. The products delivers 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.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	5.5	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2000	MPa	ISO 527
Notched Impact Strength (Charpy), +23°C	40	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	9	kJ/m ²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	95	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	88	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1070	kg/m ³	ISO 1183
Bulk density	600	kg/m ³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	240 - 280	°C	-
Mold temperature	40 - 80	°C	-

Characteristics
Processing

Injection Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

 Impact modified, Light stabilized or stable to light, UV stabilized,
 Heat aging stabilized

Chemical Resistance

Environmental Stress Crack Resistance

Certifications

Medical, Biocompatibility ISO 10993

Applications

Medical

Injection Molding
PREPROCESSING

Pre-drying, Temperature: 80°C

Pre-drying, Time: 2 - 4h

PROCESSING

Melt temperature, range: 240 - 280°C

Mold temperature, range: 40 - 80°C