

Technical Data

Product Description

Luran® 358N is the general purpose easy-flow grade of SAN, suitable for moldings with very thin walls and / or adverse flow length to wall ratio. It features very good transparency and a light intrinsic color.

FEATURES

- Excellent transparency
- Good surface appearance
- Good chemical resistance
- Good heat resistance
- Very good dimensional stability

APPLICATIONS

- Cosmetic packaging
- Water containers
- White goods
- Soap dispensers
- Cosmetic jars
- Aquarium filters

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
UL Yellow Card ²	• E108538-100840247		
Search for UL Yellow Card	• INEOS Styrolution • Luran®		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • General Purpose • Good Dimensional Stability	• Good Flow • Good Heat Resistance • High Clarity	• Pleasing Surface Appearance
Uses	• Containers • Cosmetic Packaging • Filters	• General Purpose • Packaging • Thin-walled Parts	• White Goods & Small Appliances
Forms	• Pellets		
Processing Method	• Injection Molding		
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1)	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)	• Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.08 g/cm ³	1.08 g/cm ³	ISO 1183
Apparent (Bulk) Density ⁴	0.65 g/cm ³	0.65 g/cm ³	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	22 cm ³ /10min	22 cm ³ /10min	ISO 1133
Molding Shrinkage	0.30 to 0.70 %	0.30 to 0.70 %	ISO 294-4
Water Absorption Equilibrium, 73°F (23°C), 50% RH	0.20 %	0.20 %	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	537000 psi	3700 MPa	ISO 527-1
Tensile Stress (Yield, 73°F (23°C))	10400 psi	72.0 MPa	ISO 527-2
Tensile Strain (Break, 73°F (23°C))	3.0 %	3.0 %	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	508000 psi	3500 MPa	
1000 hr	406000 psi	2800 MPa	
Flexural Stress (73°F (23°C))	17400 psi	120 MPa	ISO 178



Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	0.95 ft·lb/in ²	2.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	7.6 ft·lb/in ²	16 kJ/m ²	
73°F (23°C)	7.6 ft·lb/in ²	16 kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-22°F (-30°C)	0.95 ft·lb/in ²	2.0 kJ/m ²	
73°F (23°C)	0.95 ft·lb/in ²	2.0 kJ/m ²	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness	23900 psi	165 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load ⁵			
66 psi (0.45 MPa), Annealed	210 °F	99.0 °C	ISO 75-2/B
264 psi (1.8 MPa), Annealed	187 °F	86.0 °C	ISO 75-2/A
Vicat Softening Temperature	223 °F	106 °C	ISO 306/B50
CLTE - Flow	3.9E-5 in/in/°F	7.0E-5 cm/cm/°C	ISO 11359-2
Thermal Conductivity	1.2 Btu·in/hr/ft ² /°F	0.17 W/m/K	DIN 52612
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 62631-3-1
Volume Resistivity	1.0E+16 ohms·cm	1.0E+16 ohms·cm	IEC 62631-3-1
Dielectric Constant (100 Hz)	3.00	3.00	IEC 62631-2-1
Dissipation Factor			IEC 62631-2-1
100 Hz	4.0E-3	4.0E-3	
1 MHz	7.0E-3	7.0E-3	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Refractive Index ⁶	1.569	1.569	ISO 489
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	176 °F	80 °C	
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr	
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C	
Mold Temperature	104 to 176 °F	40 to 80 °C	
Injection Velocity	472 in/min	12 m/min	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ With external lubricant

⁵ 4 h/80 °C

⁶ Sodium D Line



Where to Buy

Supplier

INEOS Styrolution

Frankfurt, Frankfurt Germany
Telephone: +49 69 5095501200
Web: <http://www.ineos-styrolution.com>

Distributor

ALBIS Plastic

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.

Telephone: +49-40-78105-0

Web: <http://www.albis.com/>

Availability: Algeria, Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hong Kong, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

Entec Polymers

Telephone: 833-319-0299

Web: https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%20%201&utm_term=ul%20%7C%20where%20to%20buy

Availability: North America

M. Holland Canada Company

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

M. Holland Company

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Hungary, Ireland, Italy, Macedonia, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Turkey, Ukraine, United Kingdom

