

# Lustran® 348

Acrylonitrile Butadiene Styrene

INEOS Styrolution

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Lustran® 348 resin is an injection molding grade of ABS (Acrylonitrile butadiene styrene) with medium impact strength and good tensile properties. It is especially suitable for medical applications

### FEATURES

- Healthcare certifications
- High gloss
- Medium impact
- Meets FDA modified ISO 10993-1 requirements
- Meets U.S. Pharmacopeia 23 Class VI test requirements
- UL Classification 94HB

### APPLICATIONS

- Components of intravenous (IV) systems
- Surgical instruments
- Diagnostic test kits

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E44741-235631</a>
Search for UL Yellow Card	• <a href="#">INEOS Styrolution</a> • <a href="#">Lustran®</a>
Availability	• Asia Pacific • Latin America • North America
Features	• High Gloss • Medium Impact Resistance
Uses	• Medical/Healthcare Applications • Surgical Instruments
Agency Ratings	• ISO 10993-1 • USP Class VI
Processing Method	• Injection Molding
Multi-Point Data	• Specific Volume vs Temperature (ISO 11403-2)

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	14 g/10 min	14 g/10 min	
230°C/3.8 kg	5.0 g/10 min	5.0 g/10 min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	380000 psi	2620 MPa	ASTM D638
Tensile Strength (Yield, 73°F (23°C))	7000 psi	48.3 MPa	ASTM D638
Flexural Modulus (73°F (23°C))	390000 psi	2690 MPa	ASTM D790
Flexural Strength (73°F (23°C))	11000 psi	75.8 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	7.1 ft·lb/in <sup>2</sup>	15 kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact (73°F (23°C))	4.0 ft·lb/in	210 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	112	112	ASTM D785



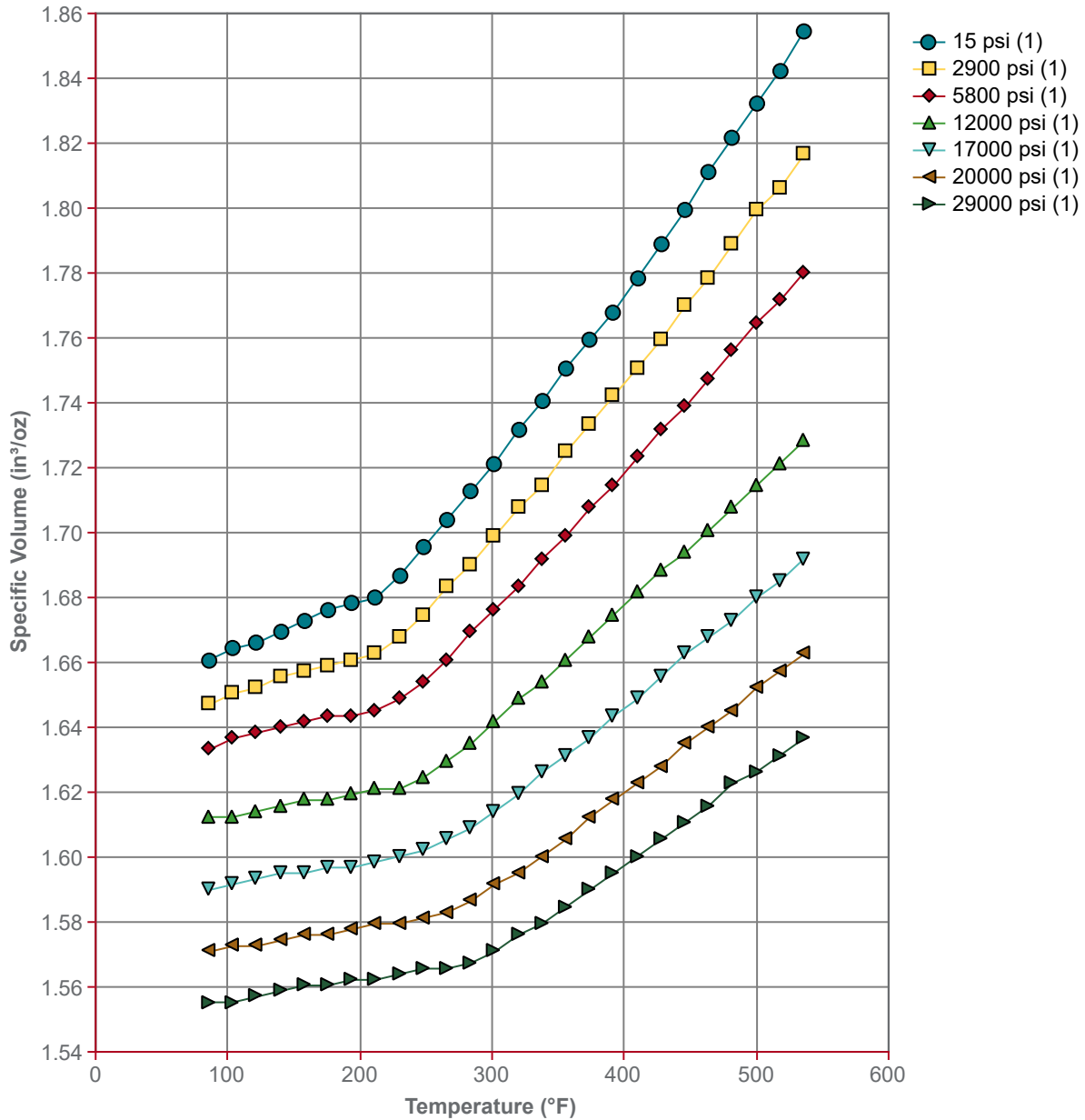
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	199 °F	92.8 °C	
66 psi (0.45 MPa), Annealed	212 °F	100 °C	
264 psi (1.8 MPa), Unannealed	186 °F	85.6 °C	
264 psi (1.8 MPa), Annealed	204 °F	95.6 °C	
Vicat Softening Temperature	437 °F	225 °C	ASTM D1525 <sup>4</sup>
CLTE - Flow	4.5E-5 in/in/°F	8.1E-5 cm/cm/°C	ASTM D696

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	175 °F	79 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	475 to 525 °F	246 to 274 °C
Mold Temperature	85 to 140 °F	29 to 60 °C



Specific Volume vs Temperature (ISO 11403-2)



Data Notes

(1) - Tested using Generic ABS (emulsion poly.)



## Notes

- <sup>1</sup> 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.
- <sup>2</sup> 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.
- <sup>3</sup> Typical properties: these are not to be construed as specifications.
- <sup>4</sup> Rate B (120°C/h), Loading 1 (10 N)



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### Where to Buy

#### Supplier

##### INEOS Styrolution

Frankfurt, Frankfurt Germany

Telephone: +49 69 5095501200

Web: <http://www.ineos-styrolution.com>

#### Distributor

##### 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%201&utm\\_term=ul%20%7C%20where%20to%20buy](https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%201&utm_term=ul%20%7C%20where%20to%20buy)

Availability: North America

##### Entec Polymers Latin America

Contact Entec Polymers for availability of individual products by country.

Web: <https://www.entecpolymers.com/>

Availability: Latin America

##### Formerra (Formerly Avient Distribution)

Formerra is a next generation distributor of performance material solutions for the world's leading brand owners and manufacturers. Bringing you commercial and technical expertise, industry know-how, and access to more than 5,000 materials from 40+ premium suppliers faster and easier than ever before.

Telephone: 1.888.502.0951 (USA); +86-21-60284936 (China)

Web: <https://www.formerra.com>

Availability: Global

##### 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

