

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 and high-gloss.

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
- UL Classification 94HB

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E44741-235631
Search for UL Yellow Card	• INEOS Styrolution • Lustran®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• High Gloss • Medium Impact Resistance
Uses	• Medical/Healthcare Applications • Surgical Instruments
Agency Ratings	• FDA Unspecified Rating • USP Class VI
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Specific Volume vs Temperature (ISO 11403-2)

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.06 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)		ASTM D1238
220°C/10.0 kg	14 g/10 min	
230°C/3.8 kg	5.0 g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60 %	ASTM D955

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2620 MPa	ASTM D638
Tensile Strength (Yield, 23°C)	48.3 MPa	ASTM D638
Flexural Modulus (23°C)	2690 MPa	ASTM D790
Flexural Strength (23°C)	75.8 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	210 J/m	ASTM D256

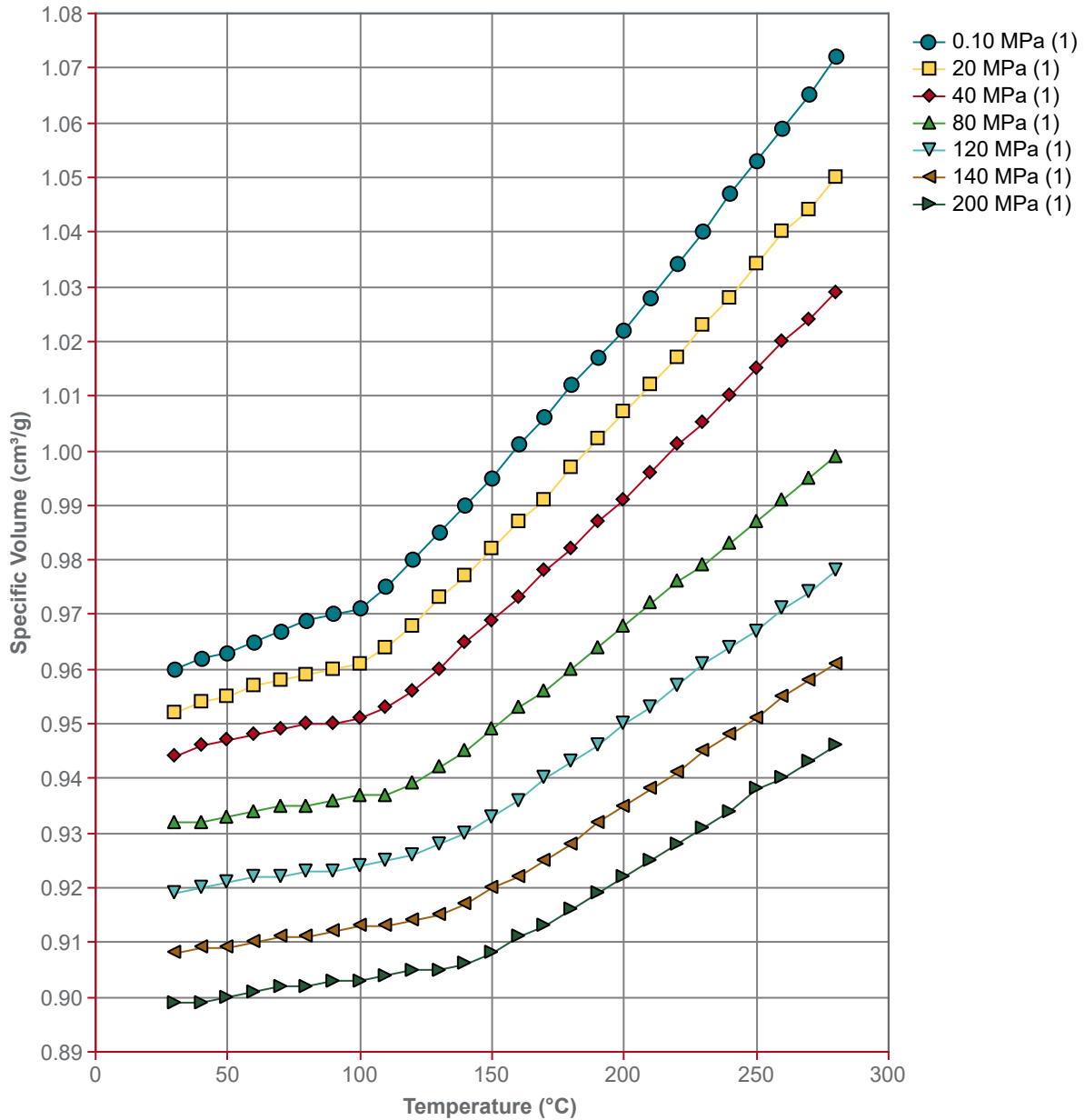
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	112	ASTM D785



Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	92.8 °C	
0.45 MPa, Annealed	100 °C	
1.8 MPa, Unannealed	85.6 °C	
1.8 MPa, Annealed	95.6 °C	
Vicat Softening Temperature	107 °C	ASTM D1525 ⁴
CLTE - Flow	8.1E-5 cm/cm/°C	ASTM D696
Injection	Nominal Value Unit	
Drying Temperature	79 °C	
Drying Time	2.0 to 4.0 hr	
Processing (Melt) Temp	246 to 274 °C	
Mold Temperature	29 to 60 °C	



Specific Volume vs Temperature (ISO 11403-2)



Data Notes

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



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 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

Avient Distribution (formerly PolyOne Distribution)

Avient Distribution is a global distribution company. Contact Avient Distribution for availability of individual products by country.

Telephone: +1-888-502-0951 (USA); +86-21-6028-4805 (China)

Web: <https://now.avient.com/>

Availability: Global

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

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, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, South Africa, Spain, Sweden, Turkey, Ukraine, United Kingdom

