

Lustran 752

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Lustran® 752 resin is a high-gloss, high-impact extrusion grade of ABS (Acrylonitrile Butadiene Styrene) with improved depth of image and gloss in extruded sheet and thermoformed parts. It provides a superior balance between rigidity and impact strength, as well as excellent melt strength for good thermoformability.

FEATURES

- High gloss
- High impact strength
- Improved depth of image
- Easy to color with ABS color concentrates
- UL 94 HB rated
- Excellent melt strength for good thermoformability

APPLICATIONS

- Carrying cases
- Table tops
- Profile extrusions
- Wall panels

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 230 °C/3.8 kg	ASTM D 1238	g/10 min	1.7
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	8.5
Izod Notched Impact Strength, -30 °C (-22 °F)	ASTM D 256	ft-lb/in	3.6
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	4900
Tensile Modulus	ASTM D 638	psi x 10 ³	240
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	290
Flexural Stress at 5% Deflection	ASTM D 790	psi	7500
Hardness, Rockwell	ASTM D 785	R scale	94
Thermal Properties			
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	171
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	194
DTUL @ 264 psi - Annealed	ASTM D 648	°F	214
DTUL @ 66 psi - Annealed	ASTM D 648	°F	219
Coefficient of Linear Thermal Expansion	ASTM D 696	10 ⁻⁴ /°F	0.52

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Property, Test Condition	Standard	Unit	Values
Optical Properties			
Specular Gloss, 60 °	ASTM D 523		90
Other Properties			
Density	ASTM D 792	lb/in ³	1.04
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 - 0.006
Drying Temperature	-	°F	175
Drying Time	-	h	2 - 4

Typical values for uncolored products

SUPPLY FORM

Lustran® ABS (Acrylonitrile Butadiene Styrene) resins are available in bulk railcar, bulk truckload and 726kg box quantities.

REGULATORY COMPLIANCE

Please refer to Styrolution web site or contact Styrolution Technical Service for further information.

PROCESSING

To obtain an optimum balance of sheet gloss and mechanical properties, the extruder profile should be set to deliver polymers at a melt temperature between 420° and 465°F (215° and 240°C).

PRODUCT SAFETY

Safety Data Sheets and product labels provide information concerning the health and safety precautions that must be observed when handling the Styrolution products mentioned in this publication. No adverse effects on the health of processing personnel have been observed if the products are correctly processed and the production areas are suitably ventilated. For styrene, acrylonitrile, alpha-methyl styrene, maleic anhydride and 1, 3-butadiene, the maximum allowable workplace concentrations must be observed according to current local and federal regulations. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. This information is available in safety data sheets and on product labels. If there are questions or concerns, consult your Styrolution representative or contact the Product Safety and Regulatory Affairs Department at Styrolution.

DISCLAIMER

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