INEOS STYROLUTION

Lustran 732

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Lustran® 732 is an extrusion grade resin designed for use in thermoformed refrigerator and freezer liner applications. It is suitable for use with 245fa PU foams.

FEATURES

- High gloss
- Good impact strength
- UL 94 HB rated

APPLICATIONS

- Appliance components
- Refrigerator and freezer liners

Property, Test Condition	Standard	Unit	Values
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	3.7
Izod Notched Impact Strength, -18 °C (0 °F)	ASTM D 256	ft-lb/in	1.4
Instrumented Dart Impact (total energy)	ASTM D 3763	in-lbs	300
Instrumented Dart Impact (Peak force)	ASTM D 3763	in-lbs	144
Tensile Stress at Break, 23 °C	ASTM D 638	psi	4100
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	3300
Tensile Modulus	ASTM D 638	psi x 10^3	333
Elongation, Failure	ASTM D 638	%	100
Hardness, Rockwell	ASTM D 785	R scale	82
Thermal Properties			
DTUL @ 264 psi - Annealed	ASTM D 648	°F	190
Coefficient of Linear Thermal Expansion	ASTM D 696	10^{-4}/°F	0.4
Other Properties			
Density	ASTM D 792	lb/in^3	1.06
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 - 0.006
Drying Temperature	-	°F	175

Contact us:
Phone +1 866 890 6353
Infopoint.americas@styrolution.com
www.ineos-styrolution.com

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Property, Test Condition	Standard	Unit	Values
Drying Time	-	h	2 - 4

Typical values for uncolored products
Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.
Please consult our local sales or technical representatives for details.

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

The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.

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