

## LUSTRAN<sup>®</sup> Guardian<sup>™</sup> ABS 732

### ABS

Extrusion Grade

#### Product Description

Lustran Guardian ABS 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. As with any product, use of Lustran Guardian ABS 732 resin in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

| Typical Properties*  | ASTM Test Method (Other)   | Lustran <sup>®</sup> 732 ABS Resin   |
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| <b>General</b><br>Specific Gravity, white<br>Critical Strain (50/50 CO/OA), 73F<br>Rockwell Hardness, R Scale  | D 792<br>(Stolki)<br>D 785                                       | 1.06<br>>1.0%<br>82  |
| <b>Mechanical</b><br>Tensile Stress at Yield, 73F<br>Tensile Stress at Fail, 73F<br>Tensile Modulus, 73F<br>Elongation at Fail, 73F<br>Impact Strength:<br>73F<br>0.125-in Thickness<br>0F<br>0.125-in Thickness<br>Multiaxial Impact, Driven Dart (0.5-in dart, 1.5" ring)<br>73F<br>E <sub>tot</sub><br>0F<br>E <sub>tot</sub> | D 638<br>D 638<br>D 638<br>D 638<br>D 256<br><br><br><br>(CEAST) | 3,300 lb/in <sup>2</sup><br>4,100 lb/in <sup>2</sup><br>333,000 lb/in <sup>2</sup><br>100%<br><br>3.7 ft-lbs/in<br>1.4 ft-lbs/in<br>25 ft-lbs <sub>f</sub><br>12 ft-lbs <sub>f</sub> |
| <b>Thermal</b><br>Heat Deflection Temperature, Annealed<br>264 psi<br>Coefficient of Linear Expansion<br>-22F to 86F   | D 648<br><br>D696  | 190F<br><br>4.0 x 10 <sup>-5</sup>   |
| <b>Flammability**</b><br>Flame Class Rating<br>1.0 mm  | (UL94)   | HB   |

\* These items are provided as general information only. They are approximate values and are not part of the product. Samples have been prepared from extruded white-pigmented polymer unless otherwise indicated.

\*\* Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to be presented by this or any other material under actual fire conditions.

### **Health and Safety Information**

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the INEOS ABS products mentioned in this publication. For materials mentioned which are not INEOS ABS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. 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. Information is available in several forms, *e.g., material safety data sheets and product labels*. Consult your INEOS ABS representative or contact the Product Safety and Regulatory Affairs Department at INEOS ABS.

### **Regulatory Compliance Information**

Some of the end uses of the products described in this publication must comply with applicable regulations, such as the FDA, NSF, USDA, CPSC and BfR. If you have any questions on the regulatory status of these products, contact your INEOS ABS representative or Regulatory Affairs Manager at INEOS ABS.

Note: The information contained in this publication is current as of July 2012. Please contact INEOS ABS to determine whether this publication has been revised.

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