

# Lustran® ABS Guardian™ 732

Acrylonitrile Butadiene Styrene

INEOS ABS (USA)

## Message:

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.

General Information			
UL YellowCard	E44741-235652		
Uses	Appliance Components Liners		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Extrusion Thermoforming		

Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	1.06	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	82		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2300	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	22.8	MPa	
Break, 23°C	28.3	MPa	
Tensile Elongation (Break, 23°C)	100	%	ASTM D638

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-18°C, 12.7 mm	75	J/m	
23°C, 12.7 mm	200	J/m	
Instrumented Dart Impact			Internal Method
-18°C, Total Energy	16.3	J	
23°C, Total Energy	33.9	J	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>2</sup> (1.8 MPa, Annealed)	87.8	°C	ASTM D648
CLTE - Flow (-30 to 30°C)	7.2E-5	cm/cm/°C	ASTM D696
Temperature Index (1.52 mm)	60	°C	UL 94

Critical Strain Energy <sup>3</sup> (23°C)	> 1.0	%	Internal Method
Flammability	Nominal Value		Test Method
Flame Rating (1.02 mm)	HB		UL 94
NOTE			
1.	White		
2.	Annealed 2 hours at 176°F		
3.	50:50 CO/OA		

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