



Lustran® 682

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

Product Description

Lustran® 682 is a high performance, HCFC-141b resistant grade of ABS for injection molded refrigerator and freezer components.

FEATURES

- HCFC-141b resistant
- High gloss
- UL 94 HB rated

APPLICATIONS

- Injection molded refrigerator and freezer components

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Features	• High Gloss
Uses	• Appliance Components
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate			ASTM D1238
220°C/10.0 kg	5.2	g/10 min	
230°C/3.8 kg	0.70	g/10 min	
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	358000	psi	ASTM D638
Tensile Strength (Yield, 73°F)	6240	psi	ASTM D638
Tensile Strength (Break, 73°F)	4640	psi	ASTM D638
Tensile Elongation (Break)	34	%	ASTM D638
Flexural Modulus (73°F)	367000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	3.2	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	96		ASTM D523

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	2.0 to 4.0	hr

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Injection	Nominal Value	Unit
Mold Temperature	110 to 150	°F
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.5:1.0	

Notes

¹ Typical properties: these are not to be construed as specifications.