

# 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
<b>Rheological Properties</b>			
Melt Flow Rate, 230 °C/3.8 kg	ASTM D 1238	g/10 min	1.7
<b>Mechanical Properties</b>			
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 <sup>3</sup>	240
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 <sup>3</sup>	290
Flexural Stress at 5% Deflection	ASTM D 790	psi	7500
Hardness, Rockwell	ASTM D 785	R scale	94
<b>Thermal Properties</b>			
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 <sup>-4</sup> /°F	0.52

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