

# Lustran 552

Acrylonitrile Butadiene Styrene (ABS)

## TECHNICAL DATASHEET

### DESCRIPTION

Lustran® 552 resin is a medium-gloss, medium-impact extrusion grade of ABS (acrylonitrile butadiene styrene). It provides a good balance between rigidity and impact strength, and has a stiff melt flow suitable for extrusion and thermoforming.

### FEATURES

- Medium gloss
- Medium impact strength
- Good balance between rigidity and impact strength
- UL 94 HB rated

### APPLICATIONS

- Profile extrusions
- Sheet substrate coextrusion

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	6
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	4.9
Izod Notched Impact Strength, -18 °C (0 °F)	ASTM D 256	ft-lb/in	2.4
Izod Notched Impact Strength, -30 °C (-22 °F)	ASTM D 256	ft-lb/in	1.9
Instrumented Dart Impact (total energy)	ASTM D 3763	in-lbs	384
Instrumented Dart Impact (Peak force)	ASTM D 3763	in-lbs	264
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	5200
Tensile Modulus	ASTM D 638	psi x 10 <sup>3</sup>	290
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 <sup>3</sup>	290
Flexural Stress at 5% Deflection	ASTM D 790	psi	86000
Hardness, Rockwell	ASTM D 785	R scale	103
<b>Thermal Properties</b>			
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	190
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	200
Coefficient of Linear Thermal Expansion	ASTM D 696	10 <sup>-4</sup> /°F	0.46
<b>Optical Properties</b>			

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Property, Test Condition	Standard	Unit	Values
Specular Gloss, 60 °	ASTM D 523		25 - 40
<b>Other Properties</b>			
Density	ASTM D 792	lb/in <sup>3</sup>	1.06
<b>Processing</b>			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 - 0.006
Drying Temperature	-	°F	175
Drying Time	-	h	2 - 4