Lustran® ABS 752

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Lustran ABS 752 resin is a high-gloss, high-impact extrusion grade of ABS (Acrylonitrile Butadiene Styrene). In its natural color (000000), Lustran ABS 752 meets FDA requirements for food contact.** It also provides a superior balance between rigidity and impact strength, as well as excellent melt strength for good thermoformability. It is easy to color with ABS color concentrates.
Lustran ABS 752 resin is used for extrusion applications that require high-impact toughness. Typical applications include various carrying cases, table tops, wall panels, and profiles. It is also used as a substrate under other specialty grades, such as Lustran ABS 556 low-gloss resin. As with any product, use of Lustran ABS 752 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	E44741-235634
Features	Rigidity, high Highlight High melt stability Impact resistance, high Good coloring Good toughness
Uses	Furniture Wallboard Profile
Agency Ratings	EC 1907/2006 (REACH) FDA Food Exposure, Not Rated
Appearance	Available colors Natural color
Forms	Particle
Processing Method	Extrusion Thermoforming Profile extrusion molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Specific Volume	0.960	cm³/g	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238

230°C/10.0 kg	7.7	g/10 min	ASTM D1238
230°C/3.8 kg	1.7	g/10 min	ASTM D1238
Water Absorption (23°C, 24 hr)	0.40	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	102		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ASTM D638
-18°C	2070	MPa	ASTM D638
23°C	1860	MPa	ASTM D638
71°C	1310	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, -18°C	51.0	MPa	ASTM D638
Yield, 23°C	35.2	MPa	ASTM D638
Yield, 71°C	19.3	MPa	ASTM D638
Flexural Modulus			ASTM D790
-40°C	2410	MPa	ASTM D790
23°C	1860	MPa	ASTM D790
71°C	1520	MPa	ASTM D790
Flexural Strength			ASTM D790
Yield, -40°C	89.6	MPa	ASTM D790
Yield, 23°C	55.2	MPa	ASTM D790
Yield, 71°C	41.4	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	180	J/m	ASTM D256
-18°C, 3.18 mm	240	J/m	ASTM D256
23°C, 3.18 mm	370	J/m	ASTM D256
Instrumented Dart Impact			ASTM D3763
-40°C, Peak Energy	28.5	J	ASTM D3763
-40°C, 3.18 mm, Total Energy	31.2	J	ASTM D3763
-18°C, Peak Energy	31.2	J	ASTM D3763
-18°C, Total Energy	40.7	J	ASTM D3763
23°C, Peak Energy	27.1	J	ASTM D3763
23°C, Total Energy	46.1	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.18mm	91.1	°C	ASTM D648
0.45 MPa, annealed, 3.18mm	98.9	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	83.9	°C	ASTM D648
1.8 MPa, annealed, 3.18mm	92.2	°C	ASTM D648
CLTE - Flow	9.4E-5	cm/cm/°C	ASTM D696
RTI Elec (0.762 mm)	60.0	°C	UL 746

RTI Imp (0.762 mm)	60.0	°C	UL 746
RTI (0.762 mm)	60.0	°C	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate [1] (3.18 mm)	36	mm/min	ASTM D635
Flame Rating (1.50 mm)	HB		UL 94
Optical	**Nominal Value**		**Test Method**
Gardner Gloss (60 °, extruded sheet)	90		ASTM D523
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	82.2 - 93.3	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	< 0.030	%	
Cylinder Zone 1 Temp.	216 - 241	°C	
Cylinder Zone 2 Temp.	218 - 241	°C	
Cylinder Zone 3 Temp.	218 - 241	°C	
Cylinder Zone 4 Temp.	218 - 241	°C	
Cylinder Zone 5 Temp.	218 - 241	°C	
Melt Temperature	216 - 249	°C	
Die Temperature	210 - 241	°C	
Take-Off Roll	62.8 - 104	°C	
Extrusion instructions			
Max. Regrind Allowed: 40%			
NOTE			
1.	Injection Molded specimen		

Recommended distributors for this material

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