

Lustran® ABS 552

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Lustran ABS 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. Lustran ABS 552 resin is easy to color with ABS color concentrates. This resin is designed for either profile extrusion or substrate coextrusion and can be used alone or blended with a higher-impact resin. As with any product, use of Lustran ABS 552 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	E44741-235642
Features	Rigidity, high
	Gloss, Medium
	Good liquidity
	Good coloring
	Medium impact resistance
Uses	Mixing
	Profile
Agency Ratings	EC 1907/2006 (REACH)
Forms	Particle
Processing Method	Sheet extrusion molding
	Thermoforming
	Profile extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Specific Volume	0.950	cm ³ /g	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	6.0	g/10 min	ASTM D1238
230°C/10.0 kg	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ASTM D638
Tensile Strength (Yield)	35.9	MPa	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
Flexural Strength (Yield)	59.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-34°C, 3.18 mm	100	J/m	ASTM D256
-18°C, 3.18 mm	130	J/m	ASTM D256
23°C, 3.18 mm	260	J/m	ASTM D256
Instrumented Dart Impact			ASTM D3763
-34°C, Peak Energy	12.0	J	ASTM D3763
-34°C, Total Energy	13.0	J	ASTM D3763
-18°C, Peak Energy	17.0	J	ASTM D3763
-18°C, Total Energy	21.0	J	ASTM D3763
23°C, Total Energy	32.0	J	ASTM D3763
23°C, Peak Energy	22.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	93.3	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	87.8	°C	ASTM D648
CLTE - Flow	8.3E-5	cm/cm/°C	ASTM D696
RTI Elec (1.50 mm)	60.0	°C	UL 746
RTI Imp (1.50 mm)	60.0	°C	UL 746
RTI (1.50 mm)	60.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, NC)	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss			ASTM D523
60, extruded sheet	90		ASTM D523
60, thermoplastic	< 20		ASTM D523
Extrusion	Nominal Value	Unit	
Drying Temperature	82.2 - 93.3	°C	
Drying Time	3.0 - 4.0	hr	
Cylinder Zone 1 Temp.	216 - 241	°C	
Cylinder Zone 2 Temp.	216 - 241	°C	
Cylinder Zone 3 Temp.	216 - 241	°C	
Cylinder Zone 4 Temp.	216 - 241	°C	
Cylinder Zone 5 Temp.	216 - 241	°C	
Melt Temperature	216 - 249	°C	
Die Temperature	210 - 241	°C	
Take-Off Roll	62.8 - 104	°C	
Extrusion instructions			

Compression Ratio: 2.5:1 to 2.7:1 Pump Ratio: 1.5 to 2.0L/D Ratio: 15:1 to 20:1 Max Regrind Allowed: 40%

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