Lustran® ABS 1152

Acrylonitrile Butadiene Styrene INEOS ABS (USA)

Message:

71°C

Lustran ABS 1152 resin is a very high-impact extrusion grade of ABS (acrylonitrile butadiene styrene) with a balance of properties not offered by other grades of ABS. It offers superior toughness, particularly for low-temperature applications, and good thermoformability. It is easy to color with ABS color concentrates

Lustran ABS 1152 resin is used in extrusion applications where super toughness is a prime consideration. Typical applications include vehicle instrument panels, luggage shells, agricultural equipment, and construction equipment. It is also used as a substrate under other specialty grade, such as Lustran ABS 556 low gloss resin and Centrex® weatherable polymers. As with any product, use of Lustran ABS 1152 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	E44741-235628	E44741-235628				
Features	Low Temperature Flexibility					
	Impact resistance, high					
	Good toughness					
Uses	Architectural application field					
	Agricultural application					
	Leather case					
	Car dashboard					
Agency Ratings	EC 1907/2006 (REACH)					
Appearance	Available colors					
Forms	Particle					
Processing Method	Extrusion					
	Thermoforming					
Physical	Nominal Value	Unit	Test Method			
Specific Gravity	1.03	g/cm³	ASTM D792			
Specific Volume	0.970	cm³/g	ASTM D792			
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	7.3	g/10 min	ASTM D1238			
Water Absorption ¹ (23°C, 24 hr)	0.40	%	ASTM D570			
Hardness	Nominal Value	Unit	Test Method			
Rockwell Hardness (R-Scale)	93		ASTM D785			
Mechanical	Nominal Value	Unit	Test Method			
Tensile Modulus			ASTM D638			
-18°C	2210	MPa	ASTM D638			
23°C	1520	MPa	ASTM D638			

MPa

ASTM D638

1240

Tensile Strength			ASTM D638
Yield, -18°C	40.7	MPa	ASTM D638
Yield, 23°C	31.0	MPa	ASTM D638
Yield, 71°C	19.3	MPa	ASTM D638
Flexural Modulus			ASTM D790
-40°C	2000	MPa	ASTM D790
23°C	1790	MPa	ASTM D790
71°C	1380	MPa	ASTM D790
Flexural Strength			ASTM D790
Yield, -40°C	80.7	MPa	ASTM D790
Yield, 23°C	48.3	MPa	ASTM D790
Yield, 71°C	32.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	220	J/m	ASTM D256
-18°C, 3.18 mm	350	J/m	ASTM D256
23°C, 3.18 mm	490	J/m	ASTM D256
Instrumented Dart Impact ²			ASTM D3763
-40°C, Peak Energy ³	31.2	J	ASTM D3763
-40°C, Total Energy ⁴	35.3	J	ASTM D3763
-18°C, Peak Energy ⁵	33.9	J	ASTM D3763
-18°C, Total Energy ⁶	47.5	J	ASTM D3763
23°C, Peak Energy ⁷	29.8	J	ASTM D3763
23°C, Total Energy ⁸	50.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	89.4	°C	ASTM D648
0.45 MPa, annealed	96.7	°C	ASTM D648
1.8 MPa, not annealed	82.2	°C	ASTM D648
1.8 MPa, annealed	90.6	°C	ASTM D648
CLTE - Flow	1.0E-4	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	Unit	Test Method
Burning Rate ⁹ (3.18 mm)	36	mm/min	ASTM D635
Flame Rating (1.50 mm)	НВ		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60 °, extruded sheet)	80		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.	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				
Max Regrind Allowed: 40%				
NOTE				
1.	Injection Molded specimen			
2.	0.5 in dart, 3 in clamp			
3.	3.40 m/sec			
4.	3.40 m/sec			
5.	2.32 m/sec			
6.	3.40 m/sec			
7.	3.40 m/sec			
8.	3.40 m/sec			
9.	Injection Molded specime	1		

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