

Lustran® ABS LK197

Acrylonitrile Butadiene Styrene

INEOS ABS (USA)

Message:

Lustran ABS LK197 resin is a high-gloss, medium-impact extrusion grade of ABS (Acrylonitrile Butadiene Styrene). It 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 LK197 resin is used for applications that require high gloss and higher rigidity, such as bathtubs, sinks, and shower surrounds for recreational vehicles, and interior liners for ice chests and picnic coolers. As with any product, use of Lustran ABS LK197 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	E44741-235639		
Features	Rigidity, high		
	Highlight		
	Good melt strength		
	Good coloring		
	Medium impact resistance		
Uses	Lining		
	Architectural application field		
	Sporting goods		
	Bathroom accessories		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Specific Volume	0.940	cm ³ /g	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	9.2	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)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
-18°C	2550	MPa	ASTM D638
23°C	2280	MPa	ASTM D638
71°C	1520	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, -18°C	59.3	MPa	ASTM D638
Yield, 23°C	40.0	MPa	ASTM D638

Yield, 71°C	22.1	MPa	ASTM D638
Flexural Modulus			ASTM D790
-40°C	2760	MPa	ASTM D790
23°C	2480	MPa	ASTM D790
71°C	1930	MPa	ASTM D790
Flexural Strength			ASTM D790
Yield, -40°C	114	MPa	ASTM D790
Yield, 23°C	63.4	MPa	ASTM D790
Yield, 71°C	49.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	91	J/m	ASTM D256
-18°C, 3.18 mm	130	J/m	ASTM D256
23°C, 3.18 mm	240	J/m	ASTM D256
Instrumented Dart Impact			ASTM D3763
-40°C, Peak Energy	10.8	J	ASTM D3763
-40°C, Total Energy	13.6	J	ASTM D3763
-18°C, Peak Energy	19.0	J	ASTM D3763
-18°C, Total Energy	24.4	J	ASTM D3763
23°C, Peak Energy	21.7	J	ASTM D3763
23°C, Total Energy	29.8	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	92.8	°C	ASTM D648
0.45 MPa, annealed	101	°C	ASTM D648
1.8 MPa, not annealed	85.0	°C	ASTM D648
1.8 MPa, annealed	93.9	°C	ASTM D648
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
RTI Elec (1.47 mm)	60.0	°C	UL 746
RTI Imp (1.47 mm)	60.0	°C	UL 746
RTI (1.47 mm)	60.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Burning Rate ² (3.18 mm)	36	mm/min	SAE J1685
Flame Rating (1.47 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.	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: to 2.7:1 Pump Ratio: 1.5 to 2.0 Max Regrind Allowed: 40%

NOTE

1. Injection Molded specimen
2. Injection Molded specimen

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