

## Ineos ABS Lustran® LK197 ABS, Extrusion Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

### Material Notes:

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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-ABS-Lustran-LK197-ABS-Extrusion-Grade.php](http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-LK197-ABS-Extrusion-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in <sup>3</sup>	ASTM-D792
Water Absorption	0.40 %	0.40 %	ASTM-D570
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	9.2 g/10 min	9.2 g/10 min	ASTM-D1238
	@Load 10.0 kg, Temperature 230 °C	@Load 22.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM-D785
Tensile Strength, Yield	22.1 MPa	3210 psi	ASTM-D638
	@Temperature 71.0 °C	@Temperature 160 °F	
	40.0 MPa	5800 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM-D638
	59.3 MPa	8600 psi	ASTM-D638
	@Temperature -18.0 °C	@Temperature -0.400 °F	
Tensile Modulus	1.50 GPa	218 ksi	ASTM-D638
	@Temperature 71.0 °C	@Temperature 160 °F	
	2.30 GPa	334 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM-D638
	2.60 GPa	377 ksi	

Mechanical Properties	@Temperature -18.0 Metric °C	@Temperature -0.400 English °F	ASTM-D638 Comments
Flexural Yield Strength	49.6 MPa	7190 psi	ASTM-D790
	@Temperature 71.0 °C	@Temperature 160 °F	
	63.4 MPa	9200 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM-D790
	113.8 MPa	16510 psi	ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.90 GPa	276 ksi	
	@Temperature 71.0 °C	@Temperature 160 °F	
	2.50 GPa	363 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM-D790
	2.80 GPa	406 ksi	ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.910 J/cm	1.70 ft-lb/in	
	@Thickness 3.20 mm, Temperature -40.0 °C	@Thickness 0.126 in, Temperature -40.0 °F	
	1.33 J/cm	2.49 ft-lb/in	
	@Thickness 3.20 mm, Temperature -18.0 °C	@Thickness 0.126 in, Temperature -0.400 °F	ASTM-D256
	2.40 J/cm	4.50 ft-lb/in	ASTM-D256
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	
Impact Test	11.0 J	8.11 ft-lb	
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	14.0 J	10.3 ft-lb	
	@Temperature -40.0 °C	@Temperature -40.0 °F	Instrumented Impact (0.5-in. dart, 3- in. clamp, 7.6 mph); Total Energy; ASTM-D3763
	19.0 J	14.0 ft-lb	Instrumented Impact (0.5-in. dart, 3- in. clamp, 7.6 mph); Peak Energy; ASTM-D3763
	@Temperature -18.0 °C	@Temperature -0.400 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	Instrumented Impact (0.5-in. dart, 3-in. clamp, 7.6 mph); Peak Energy; ASTM-D3763
	24.0 J	17.7 ft-lb	Instrumented Impact (0.5-in. dart, 3-in. clamp, 7.6 mph); Total Energy; ASTM-D3763
	@Temperature -18.0 Â°C	@Temperature -0.400 Â°F	
	30.0 J	22.1 ft-lb	Instrumented Impact (0.5-in. dart, 3-in. clamp, 7.6 mph); Total Energy; ASTM-D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	93.0 Â°C	199 Â°F	Unannealed; ASTM-D648
	101 Â°C	214 Â°F	Annealed; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	Unannealed; ASTM-D648
	94.0 Â°C	201 Â°F	Annealed; ASTM-D648
UL RTI, Electrical	60.0 Â°C	140 Â°F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical with Impact	60.0 Â°C	140 Â°F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical without Impact	60.0 Â°C	140 Â°F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flammability, UL94	HB	HB	
	@Thickness 1.47 mm	@Thickness 0.0579 in	
Flame Spread	35.6 mm/min	1.40 in/min	ASTM-D635
	@Thickness 3.20 mm	@Thickness 0.126 in	

Optical Properties	Metric	English	Comments
Gloss	90 %	90 %	Angle 60Â°, Sheet; ASTM-D523

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	215 - 240 Â°C	419 - 464 Â°F	Extrusion

Middle Barrel Temperature Processing Properties	215 - 240 Â°C Metric	419 - 464 Â°F English	Extrusion Comments
Front Barrel Temperature	215 - 240 Â°C	419 - 464 Â°F	Extrusion
Die Temperature	210 - 240 Â°C	410 - 464 Â°F	
Melt Temperature	215 - 249 Â°C	419 - 480 Â°F	Extrusion
Roll Temperature	63.0 - 85.0 Â°C	145 - 185 Â°F	Down Stack, Middle
	71.0 - 93.0 Â°C	160 - 199 Â°F	Up Stack, Bottom
	77.0 - 99.0 Â°C	171 - 210 Â°F	Up Stack, Middle
	82.0 - 105 Â°C	180 - 221 Â°F	Down Stack, Bottom
	82.0 - 105 Â°C	180 - 221 Â°F	Up Stack, Top
	82.0 - 105 Â°C	180 - 221 Â°F	Down Stack, Top
Drying Temperature	82.0 - 93.0 Â°C @Time 10800 - 14400 sec	180 - 199 Â°F @Time 3.00 - 4.00 hour	
Moisture Content	<= 0.030 %	<= 0.030 %	
Dew Point	<= -29.0 Â°C	<= -20.2 Â°F	inlet air

Descriptive Properties	Value	Comments
Pump Ratio	1.5-2.0	Extrusion
Screw Compression Ratio	2.5-2.7	Extrusion

## Contact Songhan Plastic Technology Co.,Ltd.

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