LEXAN™ Resin HF1130 - Americas





Technical Data

Product Description			
UV-stabilized. Good clarity, heat re	esistance, property retention and dimens	sional stability.	
General			
Material Status	Commercial: Active		
UL Yellow Card ¹	• E121562-220946		
Search for UL Yellow Card	SABICLEXAN™ Resin		
Availability	 Latin America 	North America	
Additive	 UV Stabilizer 		
Features	 Good Dimensional Stability 	High Clarity	High Heat Resistance
Uses	 Appliances Automotive Exterior Parts Automotive Interior Parts Automotive Under the Hood Construction Applications 	 Electrical/Electronic Applications Electronic Displays Household Goods Lawn and Garden Equipment Lenses 	 Lighting Applications Medical/Healthcare Applications Non-specific Food Applications Outdoor Applications Pharmaceuticals
Processing Method	 Injection Molding 		
Multi-Point Data	 Flexural DMA (ASTM D4065) Shear DMA (ASTM D4065) Specific Heat vs. Temperature Tensile Fatigue Tensile Stress vs. Strain (AST Thermal Conductivity vs. Tem 	Specific Heat vs. Temperature (ASTM D3417)	
Also Available In	Asia Pacific		

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.20 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	25 g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70 %	Internal Method
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³		ASTM D638
Yield	62.0 MPa	
Break	65.0 MPa	
Tensile Elongation ³ (Break)	110 %	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	2300 MPa	ASTM D790
Flexural Strength ⁴ (Yield, 50.0 mm Span)	93.0 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	640 J/m	ASTM D256
Instrumented Dart Impact		ASTM D3763
23°C, Energy at Peak	54.0 J	
Tensile Impact Strength ⁵	378 kJ/m²	ASTM D1822
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
1.8 MPa, Unannealed, 6.40 mm	126 °C	
RTI Elec	130 °C	UL 746
RTI Imp	130 °C	UL 746
RTI Str	130 °C	UL 746
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.2 mm)	V-2	UL 94

Form No. TDS-10697-en

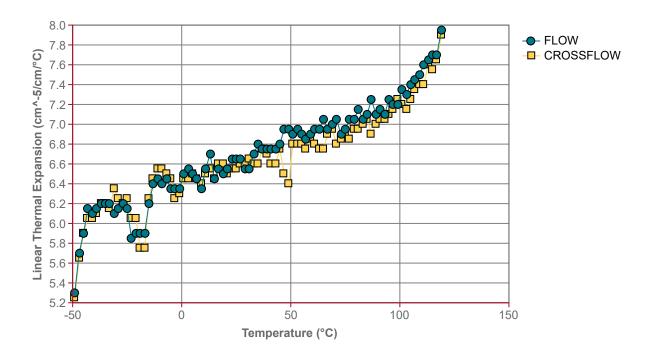


Optical	Nominal Value Unit	Test Method
Transmittance (2540 µm)	88.0 %	ASTM D1003
Haze (2540 µm)	1.00 %	ASTM D1003
njection	Nominal Value Unit	
Drying Temperature	120 °C	
Drying Time	3.0 to 4.0 hr	
Suggested Max Moisture	0.020 %	
Suggested Shot Size	40 to 60 %	
Rear Temperature	250 to 270 °C	
Middle Temperature	260 to 280 °C	
Front Temperature	270 to 295 °C	
Nozzle Temperature	265 to 290 °C	
Processing (Melt) Temp	270 to 295 °C	
Mold Temperature	70 to 95 °C	
Back Pressure	0.300 to 0.700 MPa	
Screw Speed	40 to 70 rpm	
Vent Depth	0.025 to 0.076 mm	

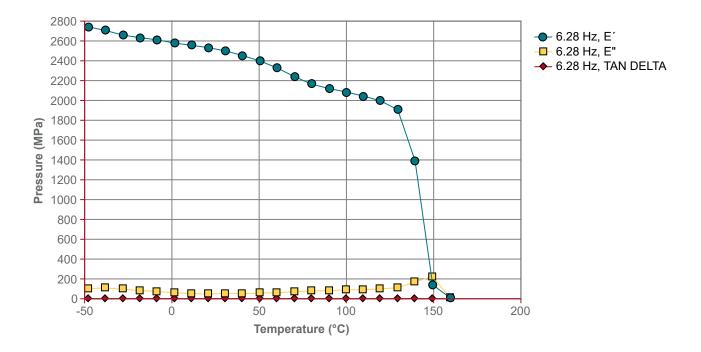
Injection Molding Parameters

• Drying Time (Cumulative): 48 hrs

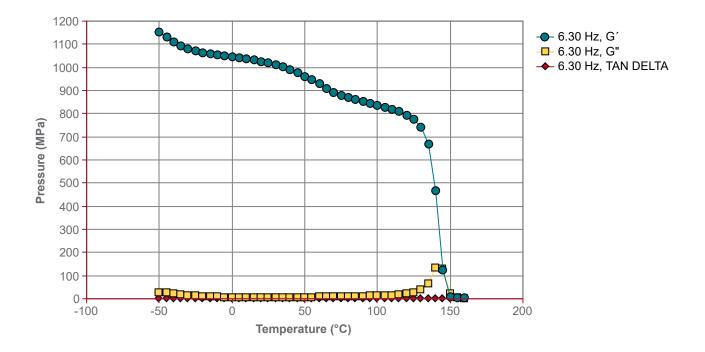
Coefficient of Thermal Expansion vs. Temperature (ASTM E831)



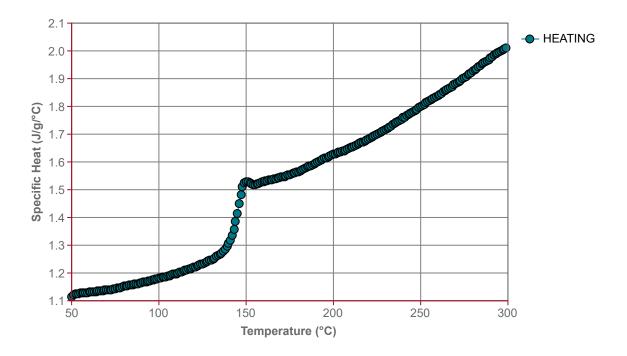
Flexural DMA (ASTM D4065)



Shear DMA (ASTM D4065)

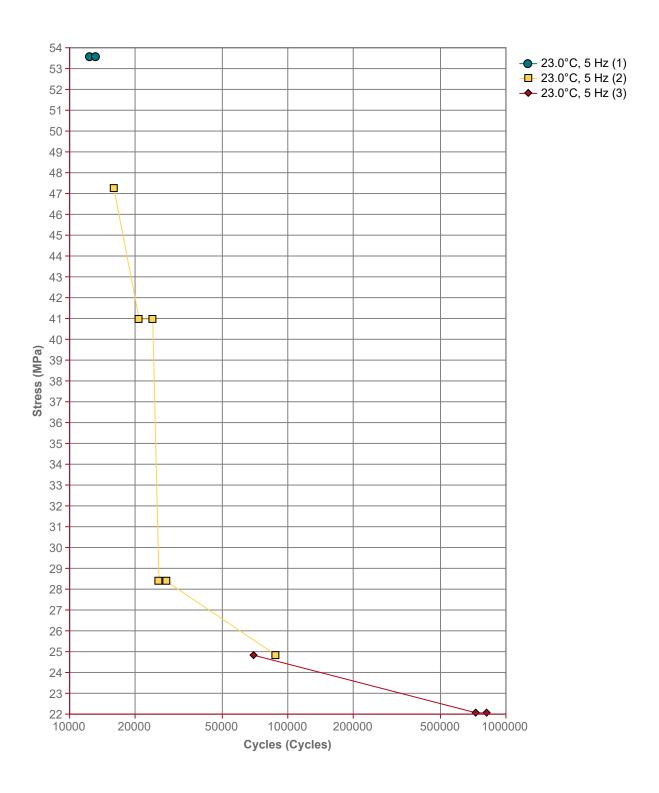


Specific Heat vs. Temperature (ASTM D3417)



Tensile Fatigue





Data Notes

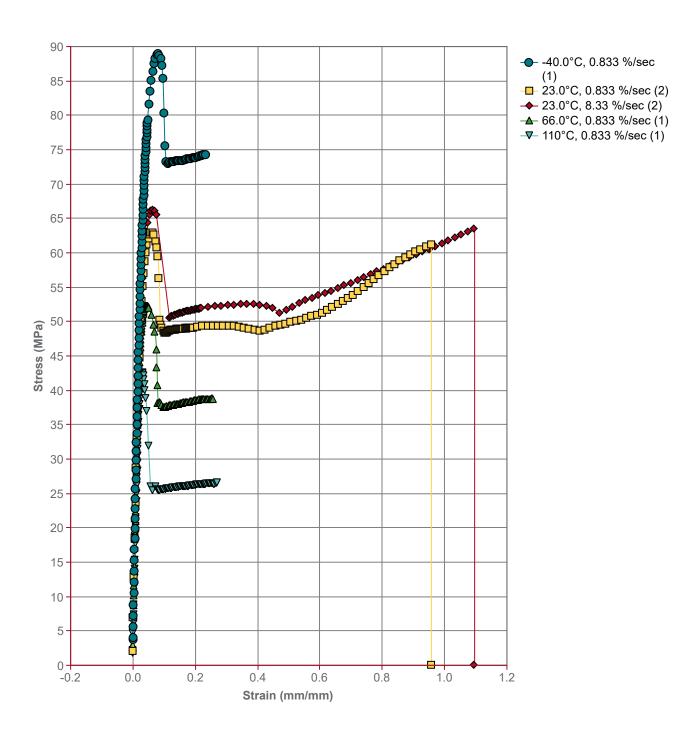
(1) - Series 1

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Tensile Stress vs. Strain (ASTM D638)

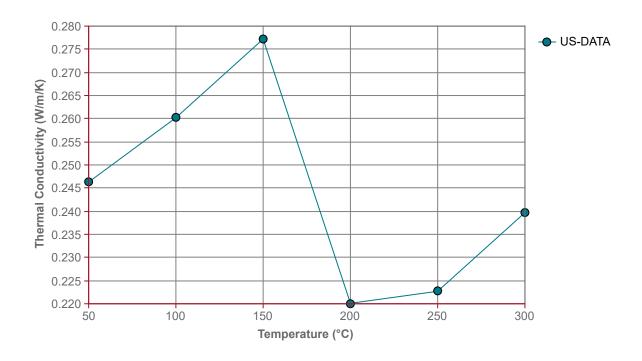


Data Notes

- (1) STOPPED
- (2) BREAK

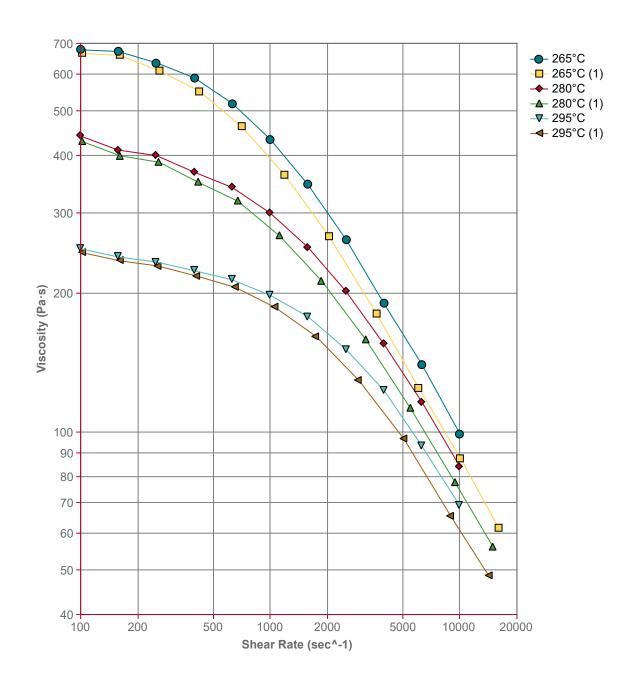


Thermal Conductivity vs. Temperature (ASTM E1530)



Viscosity vs. Shear Rate (ASTM D3835)





Data Notes

(1) - Rab. Corrected Data

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Polycarbonate

SABIC



Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ Type I, 50 mm/min

⁴ 1.3 mm/min

⁵ Type S

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Polycarbonate **SABIC**



Where to Buy

Supplier SABIC

Web: http://www.sabic.com/

Distributor

Nexeo Plastics

Telephone: 833-446-3936 Web: https://www.nexeoplastics.com/ Availability: North America

