



CIRLEX[®]
Polyimide Laminates
Data Sheet

Typical Properties of CIRLEX[®]

Property		Test Method
Physical		
Specific Gravity	1.42	
Moisture Absorption (% Regain @ 73°F, 50% RH)	0.75	ASTM E595
Mechanical		
Tensile Strength, (PSI)		ASTM D638
23°C	32490	
100°C	21400	
200°C	17400	
250°C	16500	
Tensile Modulus (KPSI)		ASTM D638
23°C	330	
100°C	488	
200°C	402	
250°C	381	
Shear Strength, (PSI)		ASTM D3846
100°C	6400	
200°C	5400	
250°C	5000	
Yield Point @ 3% Elong. (PSI)		
23°C	6112	
200°C	5490	

***CIRLEX[®] is a registered trademark of DUPONT used under license by FRALOCK.

The above values are averaged values and should not be used in writing specifications.

Corporate Headquarters



28525 West Industry Drive | Valencia, CA 91355

1-800-372-5625 Local 661-702-6999

www.fralock.com

ISO & AS Registered

ITAR Compliant

Space Qualified

QPL MIL-DTL-83528



CIRLEX®
Polyimide Laminates
Data Sheet

Typical Properties of CIRLEX® (Continued)

Thermal		
Thermal Conductivity		
W/m K	0.17	
CTE (23° - 350° C), $\mu\text{m/m } ^\circ\text{C}$		ASTM E831
in-plane	30	
thru-thickness	118	
Tg ($^\circ\text{C}$)	$\sim 351^\circ\text{C}$	
Specific Heat (J/g K)	1.09	
UL Rating		
UL File # - E39505		UL 94V0
Electrical		
Dielectric Strength		
V/mil	2790	
Dielectric Constant KHz		
DC @ 10KHz		
25°C	3.45	
Dissipation Factor	0.0021	

Information presented herein is typical and representative of material performance. Any and all warranties, either expressed or implied, are disclaimed. All products or materials supplied, including any recommendations or suggestions must be evaluated by the user to determine applicability and suitability for a particular use. Values should not be used directly for specification purposes. Fralock, Division of Lockwood Industries, does not assume any liability for use or misuse of any products produced or supplied. This information replaces all previous information. As a result of the constant development of our products, we reserve the right to make alterations to this information without notice.

Rev 7
021615

***CIRLEX® is a registered trademark of DUPONT used under license by FRALOCK.

Warranty	User is responsible for determining whether the product is fit for a particular purpose and suitable for user's application.
Limitation of Liability	Fralock will not be liable for any loss or damage arising from the product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

The above values are averaged values and should not be used in writing specifications.

Corporate Headquarters



28525 West Industry Drive | Valencia, CA 91355

1-800-372-5625 Local 661-702-6999

www.fralock.com

ISO & AS Registered
ITAR Compliant
Space Qualified
QPL MIL-DTL-83528