



NORPLEX-MICARTA

PRODUCT CAPABILITIES:

- STOCK SHAPES
· Sheet : 1mm – 35mm

ADVANTAGES:

- Excellent Mechanical Strength
- Easy Machinability
- Good Electrical Properties From Cryogenic To Elevated Temperatures
- Meets Requirement of MIL-I-24768/3, Type GEB

PRODUCT COLORS:

- Light Yellow

APPLICATIONS INCLUDE:

- Low Temperature Thermal Insulation
- Structural Applications
- Cryogenic Applications
- Mechanical & Electrical Applications For Very High or Very Low Temperatures Are Part Of The Environmental Requirement.
- Pipe Shoes And Vacuum Applications

GENERAL PROPERTIES		ASTM or UL Test	G11 Typical Values
PHYSICAL			
Density (g/cm ³)		D792	1.8
Water Absorption, Immersion, 24 hr (%) (0.0625")		D570	0.20
MECHANICAL			
Tensile Strength (Mpa) (0.125")	LW / CW	D638	296.5 / 255.1
Flexural Strength (Mpa) (0.0625")	LW / CW	D790	469.5 / 422.6
Flexural Modulus (Gpa) (0.0625")	LW / CW	D790	20.7 / 18.6
Compressive Strength (Mpa) (0.5")	Flatwise	D695	499.9
Bonding Strength (Kg) (0.5")		D229	861.8
Shear Strength (Mpa) (0.0625")		D732	151.7
Izod Impact Strength (ft-lb/in) (0.5")	LW / CW	D256	12.0 / 9.00
Hardness, Rockwell, Scale M		D785	112
THERMAL			
Coeff. of Thermal Expansion ("/°Cx10 ⁶) (0.125")		IPC-TM 650-2.4.24	X-axis (13.0) Y-axis (15.0)
Temperature Index (°C), Electrical (0.125")		UL Bulletin 746b	170
Temperature Index (°C), Mechanical (0.125")		UL Bulletin 746b	180
Tg by DMA (0.5")		-	180
Flammability Rating (0.0625")		UL-94	HB
ELECTRICAL			
Breakdown Voltage (kVolts) (0.0625")		D149	60
Electric Strength (kV/cm) (0.0625")		D149	275.6

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.