

# PRELIMINARY SPECIFICATION

**Item Number:** 40C20N005  
**Description:** Flexible Heater Substrate  
Kapton® Polyimide with Calendered Silicone Rubber

## Design / Construction



Substrate: Kapton® Polyimide (2 mil)  
Adhesive Layer: 3 mil uncured clear silicone

Interleave (Top): LDPE  
Interleave (Bottom):

	<u>Target</u>	<u>Tolerance</u>	<u>Method</u>
Thickness (Overall in mils):	5.0	+/- 1.0	Arlon SQA-TMS-003
Dielectric Strength (kv):	10.00	6.0 Min	Arlon SQA-TMS-020
Weight per Unit Area (lb/yard <sup>2</sup> ):	0.68	+/- 0.10	Arlon SQA-TMS-025
Tensile Strength (psi):	10,000	6,000 Min	Arlon SQA-TMS-009
Elongation (%):	75.00	60.00 Min	Arlon SQA-TMS-009
Ply Adhesion Strength (lb/in):	16.00	6.00 Min	Arlon SQA-TMS-011
Silicone Compound Durometer :	45.00	+/- 5.00	ASTM D 2240

## General

Shelf Life: 6 months from date of manufacture @ 70°F  
Recommended Cure Cycle: 15 minutes @ 250°F & 100 –200 psi (etched foil)/ 10-50 (wire-wound)  
Product Operating Temperature: -50°C - 230°C



Arlon Silicones Technology

### High Performance Foams

1100 Governor Lea Road | Bear, DE 19701-1998 USA  
+1-302-834-2100