

# PRELIMINARY SPECIFICATION

**Item Number:** I40C28N005  
**Description:** Flexible Heater Substrate  
Kapton<sup>®</sup> Polyimide with Calendered Silicone Rubber

## Design / Construction



Substrate: Kapton<sup>®</sup> Polyimide (2 mil)  
Adhesive Layer: 3 mil uncured clear silicone  
Foil: Inconel 600 Foil (1 mil)

Interleave (Top): LDPE  
Interleave (Bottom):

	<u>Target</u>	<u>Tolerance</u>	<u>Method</u>
Thickness (Overall in mils):	6.0	+/- 1.0	Arlon SQA-TMS-003
Weight per Unit Area (lb/yard <sup>2</sup> ):	0.68	+/- 0.10	Arlon SQA-TMS-025
Tensile Strength (psi):	14,000	6,000 Min	Arlon SQA-TMS-009
Elongation (%):	6.5	4.0 Min	Arlon SQA-TMS-009
Ply Adhesion Strength (lb/in):	7.4	6.00 Min	Arlon SQA-TMS-011

## General

Shelf Life: 6 months from date of manufacture @ 70°F  
Recommended Cure Cycle: 15 minutes @ 250°F & 100 –200 psi  
Product Operating Temperature: -50°C - 230°C



Arlon Silicones Technology

### High Performance Foams

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