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### NCAMP Material Specification

*This specification is generated and maintained in accordance with NCAMP  
Standard Operating Procedures, NSP 100*

Medium Temperature, Out-of-Autoclave, Oven-Vacuum-Bag Cure Epoxy Resin  
Impregnated Fiber Reinforced Composite Materials, Type 32, Class 1, Grade 145

Solvay (Formerly Cytec, Umeco Structural Materials (USM-OK), The Advanced  
Composites Group (ACG)) MTM 45-1 AS4 Tape

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REVISIONS:

<b>Rev</b>	<b>By</b>	<b>Date</b>	<b>Pages Revised or Added</b>
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**1. SCOPE:**

**1.1 Form:**

This detail specification along with the base specification NMS

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## 3.5.3 Cured Laminate Mechanical Properties:

TABLE 4 - Required Cured Laminate Tests for Mechanical Properties (Class 1)

Property	Test Method <sup>(1)</sup>	Requirements <sup>(3)</sup>
0/90° Tension Strength and Modulus, Room Temperature Dry Layup: [0/90] <sub>4S</sub> 90/0nTJ ET EMC /Span 5EMCW.	ASTM D3039	Strength <sup>(2)</sup> : Min. Ind.    15.3 ksi Strength <sup>(2)</sup> : Average    33.8 ksi Modulus <sup>(2)</sup> : 9.08 and 10.71 msi, avg.

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