

CONFIDENTIAL TESTING REPORT

Current Composites

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TECHNICAL REPORT

Customer Name: Current Composites

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PROJECT NUMBER:

NEX010915-01

SAMPLE DESCRIPTION SUMMARY:

The sample product SR1000 was a grey liquid with a thick consistency. SR1000 was in a black bucket with the product label on it. According to the temperature warning devices packaged with the materials, there was no indication that the sample was exposed to low temperatures during shipping.

EXECUTIVE SUMMARY:

The goal of this analysis was to determine tensile strength of the applied SR1000 product according to ASTM D882. Table 1 lists the result from the tensile strength tests.

Table 1: Sample Product Tensile Strength Test Results

Test	Value
ASTM D882 for Tensile Strength at Yield for SR1000	1.861 MPa

INTRODUCTION:

The sample products were subjected to the specified tests according to the listed ASTM methods. Tensile strength testing for SR1000 was performed after the product was applied to a 1mm thickness.

TESTING METHODS:

Tensile Elongation ASTM D882:

The sample product was coated in 1mm thickness onto strips of wax paper. The product was tested with an Instron 5965 with a 5kN capacity; the elongation at yield and breaking point capacity were measured.

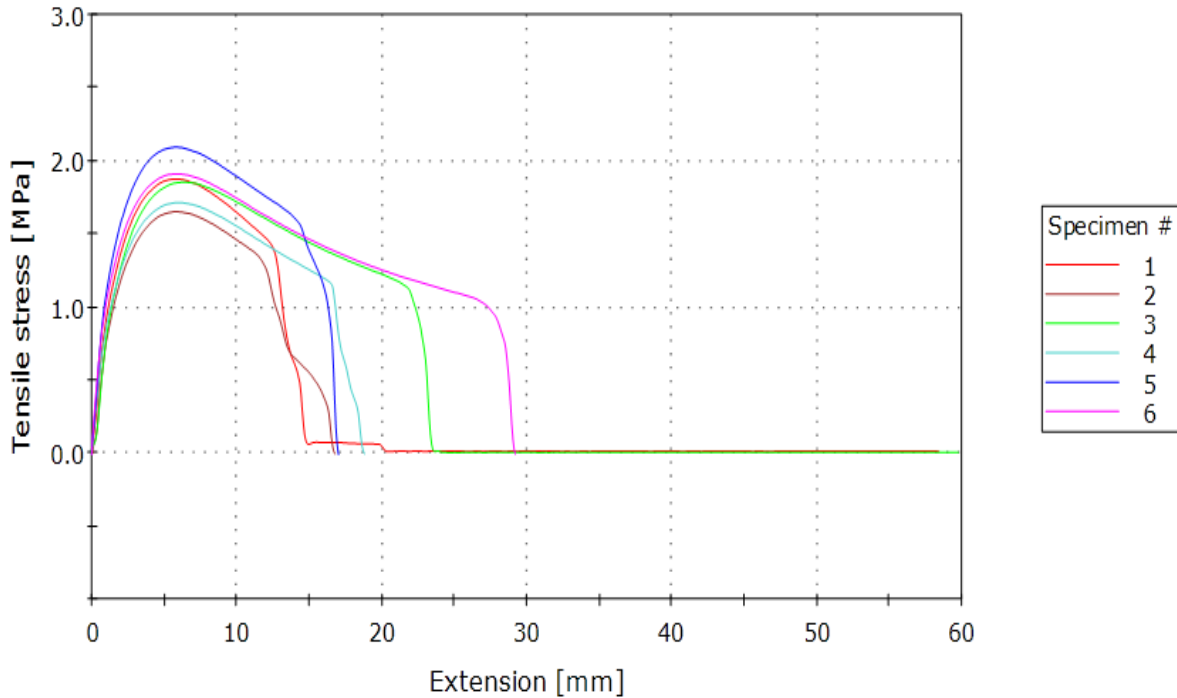
TESTING RESULTS & DISCUSSION:

The results of the tensile strength test for SR1000 after being applied to a 1mm thickness are listed in Table 2. Figure 1 is a graphic demonstration of the tensile strength at yield and stress test results; each of the specimens represents a different 1mm coated sample. Differences in tensile stress at yield values between specimens are likely a reflection of sample coating irregularities.

Table 2: Tensile Strength and Stress Test Results

Test Number	Tensile Stress at Yield (Zero slope) [MPa]
1	1.87493
2	1.93356
3	1.65229
4	1.85299
5	1.7139
6	2.0915
7	1.91085
Average	1.86143

Figure 1: Sample Product Stress-Strain Curve



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