Client:

Tri-Peek International Ltd

Date:

22-Apr-2008

0802-214

Product: Dilution:

PEEK

As received

BOEING D6-17487 REVISION P (Exterior & General)

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SMI/REF:

Acrylic Crazing Test:

The material being tested shall not craze, crack, or etch acrylic test specimens when tested in accordance with ASTM F 484 using Type C (stretched acrylic plastic in accordance with MIL-P-25690) stressed to an outer fiber stress of 4500 psi.

Type C (MIL-P-25690): No crazing, cracking, or etching

Result	Conforms	

## Paint Softening Test Procedure:

a. Testing shall be in accordance with ASTM F502 using the following coating systems.

(1) BMS 10-79, Type II primer applied in accordance with BAC 5882 plus BMS 10-60, Type II enamel in accordance with BAC 5845.

(2) BMS 10-79, Type III primer applied in accordance with BAC 5882, plus BMS 10-100 coating in accordance with BAC 5795.

b. Three specimens conforming to Section 13a.(1) and three specimens conforming to Section 13a(2) shall be used for each test condition.

c. The material being tested shall not produce a decrease in film hardness greater than two pencils, or any discoloration or staining.

NOTE: Slight darkening of the BMS 10-100 surface is acceptable.

As received:

Paint system 1: <u>0</u> pencil hardness change after 24 hour post-exposure dry time.

No discoloration or staining.

Paint system 2: <u>0</u> pencil hardness change after 24 hour post-exposure dry time. Slight staining.

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Result	Conforms
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## Hydrogen Embrittlement Test: .

Hydrogen Embrittlement testing shall be in accordance with ASTM F 519-93, using cadmium plated Type 1a, 1c, or 2a specimens. All requirements of ASTM F519-93 for specimens, preparation, testing, and reporting shall apply. Type 1a specimens shall meet the requirements of D6-4307.

Specimens: Type 1c, cadmium plated per MIL-STD-870 Type I Class 1. (45% load, 150 hours, notched immersed for the duration, room temp.)

As received: #1: No failure occurred within 150 hours.

#2: No failure occurred within 150 hours.
#3: No failure occurred within 150 hours.

#4: No failure occurred within 150 hours.

Result	Conforms
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