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Test Certificate

IFC Techprocomplex LLC
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REF NoN707705/2-4 Issue 1
Ord No Cash account

Date Tested 15/05/2008
Date Reported 15/05/2008

Test Product: Free film sheet of TIAL-M80 adhesive

Specification - ASTM E28 - 04

Description of product tested

TIAL-M80 adhesive used as part of TIAL-M80/TIAL-MGP heat-shrinkable wrap-around sleeve operating at temperature up to 80°C with TIAL-P wet epoxy primer.

| ASTM E28 - 04 | | | |
|--|-----------------------------------|-----------------------------------|-------------------------------|
| Softening Point of Resins Derived from Naval Stores by Ring-and-Ball Apparatus | | | |
| TIAL-M80 Adhesive. | | | |
| Item number | Sample A Test Temperature (°C) | Sample B Test Temperature (°C) | Mean Test Temperature (°C) |
| 1 | 110.2 | 110.2 | 110.2 |
| 2 | 109.5 | 110.1 | 109.8 |
| 3 | 109.0 | 111.1 | 110.1 |
| 4 | 111.6 | 111.9 | 111.8 |
| 5 | 112.5 | 113.9 | 113.2 |
| 6 | 110.1 | 111.1 | 110.6 |

Note:

- The samples were tested within 15 minutes after casting into the moulds.
- The heating solution used was silicone oil.
- The test samples are conditioned at the start temperature for 15 minutes and stirred at 500 to 700 rev/minute.
- The temperature is increased at a rate of 5°C/minute until the softening point is reached.

Test equipment used:

Thermostat controlled hot plate and stirrer Model VMS-C7-2 S2 Serial No. 01.646951.
Reference digital readout and N type thermocouple serial number 27346 and 45945/1 Calibration due 17/09/08
Stopwatch serial number. NW288 Calibration due 30/05/08

The test sample was conditioned before testing for 24 hours at 23 ± 2°C and 50 ± 5% relative humidity.

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The above testing has been carried out in accordance with the requirements of the governing specification and or clients requirements, and controlled within the laboratories BS/EN/ISO/IEC 17025 UKAS accredited quality system. However, the testing is not covered under the laboratories UKAS testing schedule.

John Carter
Operations Manager
Bodycote Testing Ltd.
North West Laboratory

Authored by: Mr A Jones

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For and on behalf of
Bodycote Materials Testing. Ltd

Witnessed by


.....
Mr S. Davenport Inspection/Expediting Engineer
Velosi Europe Limited