

# Lancer Dispersions, Inc.



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## Progress Report - Matching of Nissan Standards for Chardon Rubber

### I. Procedure

Work was initiated on matching six standards in 70 and 90 durometer bases. The color matching was done using pigments commonly used for automotive application and the Lancer test procedure for preparing color concentrates. Let downs were made at 3 parts of concentrate per 100 parts of base. Panels were then prepared on a Carver press and spectrophotometrically compared to the submitted standards. Results are presented for five submittals.

### II. Results

Readings were taken on the MacBeth 2000 Spectrophotometer obtaining C.I.E. L\*a\*b\* values with the Northern Skylight (c) illuminant. Results are tabulated as follows:

|              |    |          |         |          |
|--------------|----|----------|---------|----------|
| LR-7596      | vs | Max Dark | Max Red | Max Blue |
| AB43/70 duro | a  | 0.0      | -0.1    | 0.2      |
| Blue         | b  | 1.0      | 0.9     | 0.8      |
|              | L  | 0.4      | 0.1     | 0.2      |
|              | E  | 1.2      | 1.0     | 1.0      |

|              |    |          |         |          |
|--------------|----|----------|---------|----------|
| LR-7489      | vs | Max Dark | Max Red | Max Blue |
| AB43/90 duro | a  | 0.3      | 0.0     | 0.5      |
| Blue         | b  | 0.2      | 0.4     | 0.1      |
|              | L  | 0.3      | 0.2     | 0.0      |
|              | E  | 0.6      | 0.6     | 0.5      |

|              |    |          |          |            |
|--------------|----|----------|----------|------------|
| LR-7517      | vs | Max Dark | Max Blue | Max Yellow |
| AA43/70 duro | a  | 0.1      | 0.4      | -0.4       |
| Red          | b  | 0.4      | 0.2      | -0.1       |
|              | L  | 0.2      | 0.2      | 0.1        |
|              | E  | 0.5      | 0.7      | 0.4        |

|              |    |          |          |            |
|--------------|----|----------|----------|------------|
| LR-7516      | vs | Max Dark | Max Blue | Max Yellow |
| AA43/90 duro | a  | -0.5     | -1.0     | -0.8       |
| Red          | b  | 0.0      | 0.1      | -0.2       |
|              | L  | 0.2      | 0.1      | 0.0        |
|              | E  | 0.5      | 1.1      | 0.9        |

|              |    |  |         |          |
|--------------|----|--|---------|----------|
| LR-7597      | vs |  | Max Red | Max Blue |
| AG01/70 duro | a  |  | -0.2    | -0.3     |
| Black        | b  |  | 0.0     | 0.0      |
|              | L  |  | 1.0     | 1.2      |
|              | E  |  | 1.1     | 1.5      |

CHARDO 02226

### III. Conclusion

The panels and the data presented represent the progress made on this project as of December 1, 1986. Remaining matches will be submitted as developed.

Lancer Dispersions manufactures composite pigment concentrates on a regular basis and will provide Chardon with the technical support needed to develop matches for automotive standards.



## KINUGAWA RUBBER INDUSTRIAL CO., LTD.

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July 22, 1986

Mr. Don Sullivan  
CKR Industries, Inc.

Dear Don,

I send 6 color standards of PVC products for NMMC as follow:

850 Truck

865 Car

70-90 AG 89 Gray *off*

AG 01 Black

AB 43 Blue\*

PK 00 Gray *all*

AA 43 Red

AB 43 Blue\*

AC 45 Brown *ok*

\* same color

Each standards are shown by the limit samples of lightness, color (blue, yellow, red), and/or gloss, and contained by each wood box except PK 00 & AB 43 which share a box.

These color standards were approved by Nissan Design Dept. in Japan.

Sincerely yours,

*Toshio Ishiguro*

Toshio Ishiguro

*Established Formulas  
by Spectro Photometric  
Analysis*

*if Si would better duplicate  
color in speed to matching*

*one month total  
submit Partial?*

CHARDO 02228