COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

Reference No. 2218-04

Materials Laboratory
Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222

PART 1: Completed by Product Representative
PART 2: Completed by CDOT Product Evaluation Coordinator
PART 3: Completed by CDOT Expert Product Evaluator
PART 4: Completed by CDOT Materials Engineer

PART 1

Product name: Stamark, High Performance Tape, Yellow (Series 381I)

Product category: TC\PMM\Perm., Preformed, Plastic Tape, Type I

Product representative (name & address):
3M Traffic Safety Systems Division {Ted Denisuk}
9957 East 7th Avenue
Aurora, CO 80010
Phone: (303) 344-9423 FAX: (303) 344-2161

Manufacturer (name & address):
3M Company-Traffic Safety Systems Divison
3M Center, Building 225-5S-08
St. Paul, MN 55133-3225
Phone: (800) 553-1380 FAX: (800) 591-9293

Description of product, (be precise, include product differentiation between your products &/or competitor's products):
Series 381I is a yellow, premium patterned, high performance, highly durable, high retro-refelctive preformed pavement marking tape. Abrasion-resistant microcrystalline ceramic beads are bonded in a highly durable polyurethane topcoat. Yellow microcrystalline ceramic beads improve nighttime yellow color. The microcrystalline ceramic bead, with increased hardness and higher crush strength provide superior durability to the bead resulting in improved reflectivity retention. Competitive tapes specify initial reflectivity values that are typically half the brightness value of 381I. 12 month PA 2002 NTPEP test deck 381I- 324 mcd, ATM 300 yellow-153 mcd (ACC, skip line position). Minimum temperature application is 60° F.

Usage of product, (be specific to CDOT highway activities only):
Designed for longitudinal markings (centerlines, edgelines, gore markings) subjected to high traffic volumes and severe wear conditions.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Patterned design provides a near vertical face to traffic to maximize reflectivity and provide wet recovery in rain conditions that flat tapes do not, resulting in safer driving conditions for the motoring public. The superior durability of 381I tapes also means extended life road presence, offering less frequent restriping resulting in fewer traffic disruptions. 48 month warranty vs 12-16 month for competitive tapes. Extended road presence results in cost savings and reduces CDOT maintenance crew exposure. Yellow beads improve nighttime yellow color on centerline and edgeline markings, enhancing driver safety. Local representative routinely assists with project oversight.

Specifications, (identify specifically those applicable) **& Certificate of Compliance** (submittal required):

- ☑ CDOT : Standard Specification 627 & 713.13, Type I
- ☑ ASTM : D 4505-01a
- ☐ AASHTO:
- ☐ FHWA :
- ☑ other : COC (08/19/04)

Product testing, (national/independent laboratories) **& Certified Test Report** (submittal required):

- ☑ NTPEP-AASHTO: Pennsylvania NTPEP 2002
- ☐ HITEC or FHWA :
- ☑ FHWA or other : FHWA finding in the public interest letter for Arizona DOT dated 05/27/03
- ☑ other : Stork Materials Technology, Twin Cities Testing Corp. (06/30/04)

State DOT Approvals, (current documentation required):
AL, AZ, AR, FL, GA, CO, IL, KS, MD, MA, MI, MN, MO, NE, NV, ND, NH, TN, UT

Evaluation Procedure, (recommended):
Review NTPEP test data in this submittal, and field inspection of projects installed on CDOT highways

Sample submitted: ☑ yes ☐ no ☐ n/a | Materials Safety Data Sheets (MSDS): ☑ yes ☐ no ☐ n/a

Notes/Additional Comments
Stamark Series 381I is currently on the Approved Products List, and has been successfully used on over 105 CDOT projects since 1994.

Manufacturer's Web-site address: www.3M.com

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