COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3678-13

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 713.16.01.00

FOR INTERNAL CDOT USE

Material code description full name: Traffic Control, Pavement Tape Removable

PART 1

Product name: 711 Yellow, 3M™ Stamark™ Wet Reflective Removable Tape

Product category: TC\PMM\Preformed Plastic Tape, Temporary

Product representative (name & address):
Attn: Ted Denisuk
3M Company-Traffic Safety and Security Division
1370 Quentin Street
Aurora, CO 80011
Phone: (303) 520-6754 FAX: (303) 344-2161

Manufacturer (name & address):
Attn:
3M Company-Traffic Safety and Security Division
3M Center, Building 235-3A-09
St. Paul, MN 55144-1000
Phone: (800) 553-1380 FAX: (800) 591-9293

Web-site address: www.3M.com/roadwaysafety

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)

3M™ Stamark™ Wet Reflective Removable Tape Series 711 (yellow) is highly reflective under both wet and dry conditions. Work zones are some of the most dangerous areas on any roadway system. 3M™ Stamark™ Wet Reflective Removable Tapes can help improve work zone safety by marking temporary work zone lanes with removable, highly reflective, all-weather pavement markings. Series 711 tape is a conformable marking tape intended for longitudinal line applications in highway work zones where removability is required. Series 711 is also supplied as pre-cut symbols and legends for work zone applications.

Series 711 tape utilizes specially designed optics to provide dry and wet reflective performance. It is comprised of yellow film supported by a flexible, conformable backing. The tape is reinforced by a structured medium and pre-coated with a pressure sensitive adhesive (PSA) for easy, rapid application in temperatures above 50°F (10°C).

Entrance Angle is 88.76°, Observation Angle is 1.05°, Retroreflected Luminance is 300 (Wet & Rainy 200).

Restrictions, (installation and/or use):
Series 711 Removable tape cannot be applied below 50°F.

Use of the product, (be specific to CDOT highway activities only):
The tape is designed to perform for the duration of the normal construction season.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Wet Reflective Removable Tapes are exceptionally durable; the raised pattern construction is embedded with microcrystalline ceramic beads to ensure long-lasting visibility. Its easy application and removability reduce the exposure of both workers and drivers to work zone hazards. When work zone markings are no longer needed Series 711 removes easily, helping to avoid road scars left by grinding off other, more permanent markings.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- [x] CDOT : Standard Specification Section 713.16 Type I
- [x] ASTM : D 4592-12
- [ ] AASHTO :
- [ ] FHWA :
- [x] other : Certificate of Conformance to ASTM D 4592-12 and CDOT specification

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- [x] NTPEP-AASHTO : PMM-2010-01-024, 3M Stamark 711 Wet Reflective Removable Tape
- [ ] FHWA :
- [ ] other :
- [x] other : Future Labs (May 14, 2013)

State DOT Approvals, (current documentation required):
AZ, KS, MD, ME, MI, MN, NE, NH, NV, NY, OH, OK, OR, TN, VT, WA

Sample submitted: [x] yes [ ] no [ ] n/a | Materials Safety Data Sheets (MSDS): [x] yes [ ] no [ ] n/a

Notes/Additional Comments