COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2686-11

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

Material code: 713.04.01.00

FOR INTERNAL CDOT USE

Material code description full name: Traffic Control, Reflective Sheeting

PART 1

Product name: 3M Diamond Grade DG3, Fluorescent Yellow (#4081)	Product category: Traffic Control\Sign Sheeting\ASTM D 4956, Type XI, Fluorescent
Product representative (name & address): Attn: Ted Denisuk 3M Traffic Safety Systems Division 1370 Quentin Street Aurora, CO 80111 Phone: (303) 520-6754 FAX: (303) 244-2161	Manufacturer (name & address): Attn: 3M Customer Service 3M Company - Traffic Safety Systems Division 3M Center, Building 235-03-A-09 At. Paul, MN 55144 Phone: (800) 553-1380 FAX: (800) 591-9293
Web-site address: www.3M.com/tss email: tdenisuk@mmm.com	Web-site address: www.3M.com/tss

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

Diamond Grade DG3 Fluorescent Yellow (Product Code #4081) is a visible-activated fluorescent wide angle, full cube prismatic lens reflective sheeting for critical action warning signs. DG3 Series 4081 is a super-high efficiency, full cube retro-reflective sheeting designed for the production of traffic control signs and delineators.

#4081 meets and exceeds ASTM D 4956-09 e1, Type XI.

#4081 is comprised of full cube prismatic lens elements with a distinctive interlocking seal pattern visible from the face of a smooth surface.

The sheeting has a pre-coated adhesive protected by an easily removable liner.

Restrictions, (installation and/or use):

Application is recommended at temperature 40°F or higher.

Use of the product, (be specific to CDOT highway activities only):

Series 4081 is designed for the production of retro-reflective warning signs and delineators that are exposed vertically in service.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):

* Enhanced motorist safety through the use of a durable, full cube prismatic wide angle fluorescent sheeting
* Improved wide angle performance through State-of-the-art "full cube" technology
* Improved color night and day, higher performance under low light situations (dawn, dusk)
* Improved target value, ideal for all critical action warning sign applications

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

- [x] CDOT : Standard Specifications, Section 713.10(b), 2011.
- [x] ASTM : D 4956-09 e1, Type XI
- [ ] AASHTO :
- [ ] FHWA :
- [ ] other :

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

- [x] NTPEP-AASHTO : 2005 SSM-1107
- [ ] FHWA :
- [x] other : Calcoast - ITL (January 14, 2010)
- [ ] other :

State DOT Approvals, (current documentation required):

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

Notes/Additional Comments

State DOT approvals referenced but not documented: OR, CA, ID, MT, WY, CO, AZ, KS, NE, SD, ND, MN, WI, IL, MS, MI, SC, PA, DE, MD, ME