COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2687-11

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 Green (#4083)

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 80011
Phone: (303) 520-6754 FAX: (303) 344-2161
Web-site address: www.3M.com/tss email: tdenisuk@mmm.com

Manufacturer (name & address):
Attn: 3M Customor Service
3M Company - Traffic Safety Systems Division
3M Center, Building 235-03-A-09
St. Paul, MN 55144
Phone: (800) 553-1380 FAX: (800) 592-9293
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 Green (Product Code #4083) is a visible-activated fluorescent wide angle, full cube prismatic lens reflective sheeting for non-motorized crossing signs. DG3 Series 4083 is a super-high efficiency, full cube retro-reflective sheeting designed for the production of traffic control signs.

#4083 meets and exceeds ASTM D 4059-09 e1, Type XI.

#4083 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 40°F or higher.

Use of the product, (be specific to CDOT highway activities only):
Series 4083 is designed for the production of retro-reflective non-motorized crossing signs 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 the 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 non-motorized 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-1108
- [ ] 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