COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2206-11

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 Fluorescent VIP Yellow (#3981)

Product category: Traffic Control\Sign Sheeting\ASTM D 4956, Type IX

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 Customer Service
3M Company - Traffic Safety Systems Division
3M Company, Building 235-03-A-09
St. Paul, MN 55144
Phone: (800) 553-1380 FAX: (800) 591-9293
Web-site address: www.3M.com/tss

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
3M Diamond Grade Fluorescent VIP Reflective Sheeting is a fluorescent wide angle prismatic lens reflective sheeting designed for the production of durable critical action warning traffic control signs that are exposed vertically in service.

Series 3981 is a fluorescent yellow sheeting that meets and exceeds ASTM D 4956-09 e1, Type IX.

Restrictions, (installation and/or use):
Application temperature (and substrate temperature) should exceed 65°F.

Use of the product, (be specific to CDOT highway activities only):
Series 3981 is designed for the production of retro-reflective critical action warning 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):
* Excellent short distance reflectivity, ideal for urban applications
* Better daytime and nighttime visibility through prismatic retro-reflection
* Reduced maintenance and replacement costs

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):
- [x] CDOT : Standard Specifications, Section 710.10(b), 2011.
- [x] ASTM : D 4956-09 e1, Type IX
- [ ] AASHTO :
- [ ] FHWA :
- [ ] other :

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):
- [x] NTPEP-AASHTO : 1999 SSM-0700
- [ ] FHWA :
- [x] other : Calcoast (12-28-2007)
- [ ] other :

State DOT Approvals, (current documentation required):

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