

Product Evaluation

RE: Review of ORALITE 9900 Brilliant Grade Premium Reflective Sheeting

PRODUCT

ORALITE 9900 Brilliant Grade Premium is manufactured and distributed by ORAFOL Canada INC located in Oakville, Ontario. Product web link: <https://www.orafol.com>

VENDOR CLAIMS AND INFORMATION

CLAIMS

ORALITE 9900 Brilliant Grade Premium is highly reflective, weatherproof, self-adhesive sheeting with excellent corrosion and solvent resistance for the manufacture of durable permanent outdoor signing. The smooth surface of the film allows for high quality printability. It consists of sealed cells of air backed micro prisms, using total internal reflection. ORALITE 9900 Brilliant fully meets and/or exceeds the requirements of ASTM D4956 for Type XI.

DESCRIPTION

ORALITE 9900 Brilliant Grade Premium is available in white, yellow, orange, green, red, blue, brown, fluorescent yellow and fluorescent yellow-green. The adhesive is protected by a release liner which shall be removed by peeling, without soaking in water or other solvents. The adhesive produces such a bond that a 50 mm strip shall support a 0.79 kg weight for 5 minutes without the strip peeling for a distance of more than 50 mm when applied to a smooth aluminum surface.

POTENTIAL USAGE

Designed for the production of permanent, outdoor traffic control signage.

STANDARDS

ASTM D4956: Standard Specification for Retroreflective Sheeting for Traffic Controls

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has no experience with this product

APPLICABLE STANDARDS

Standard Specification for Highway Construction, Specification 5.18 Supply of Permanent Highway Signs, Posts and Bases, Best practices Guidelines for Sign materials(Alberta Transportation), Design Bulletin #62 2016

RECOMMENDATIONS

ORALITE 9900 Brilliant Grade Premium be listed as a Potential Product under Alberta Transportation Products List, Signs and Support System – Reflective Sheeting - Specialized Signs – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

Note: Careful installation must be made sure to attain desired Coefficient of Retro reflectivity (Ra). Appropriate color should be used based on type of application.

RESTRICTIONS ON USE

Expected RA is 92.

TRIAL PROJECTS

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cc Innovations Evaluation Committee – Roger Skirrow,
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