

Evaluation Table

PEP ID:	XXXXX
Manufacturer:	Name of Manufacturer
Product Name:	Name of Product

705 Preformed Polymer Pavement Marking

705 Preformed Pavement Marking - Type I (Permanent, Short-Line)

ADOT Stored Specification: 705PVMRK, Sections 705-1(A), 705-1(B), 705-2.01, 705-2.06

Responsible Section: Traffic Group

Material Property	Specification/ Test Method	Requirements	Results	Pass / Fail
Composition	705-2.04(A)	Type I preformed pavement marking material shall consist of a prefabricated white or yellow layer of specified thickness and width that shall be capable of being affixed to Portland cement concrete or nonbleeding bituminous pavements.		
Thickness, inches, minimum	705-2.01(A)	0.065		
Adhesive Backing	705-2.01(A)	The polymer layer shall be supplied complete with a precoated, factory-applied pressure sensitive adhesive backing.		
Warranty	705-2.01(A)	All white and yellow Type I pavement markings shall be warranted by the manufacturer to retain color and adherence to the pavement, and to retain a minimum retroreflectance of not less than 100 millicandelas/m ² /lux for a minimum of two years for symbols, legends, and transverse pavement markings, and five years for longitudinal pavement markings.		
Resins and Plasticizers, % by weight, minimum	705-2.01(B)	20		

Reflective Glass Beads, % by weight, Minimum*	705-2.01(B)	20		
Color	705-2.01(C)(1) ASTM D6628	Pigments shall conform to standard highway colors.		
Bend Test	705-2.01(C)(2)	Pass (no fracture lines in the uppermost surface)		
Tensile Strength, psi, minimum	705-2.01(C)(3) ASTM D638	40		
Tensile Elongation %, maximum	705-2.01(C)(3) ASTM D638	75		
Pull Test	705-2.01(C)(4)	Pass (a 6-inch long by 1-inch wide section of the polymer layer (without adhesive and paper backing) shall support a dead load weight of 4 pounds for not less than five minutes at a temperature between 70 and 80 degrees F.)		
Abrasion Resistance, grams, maximum loss in weight	705-2.01(C)(5) ASTM D4060	0.25		
Skid Resistance, BPN, minimum	705-2.01(C)(6) ASTM E303	45		
Glass Beads, Roundness*	705-2.06(B)(1) ASTM D1155	A minimum of 75 percent of the beads shall be waterwhite true spheres free from imperfections of all types including air inclusions, film, scratches, clusters, and surface scoring.		
Glass Beads, Refractive Index, minimum*	705-2.06(B)(2) ASTM C1648	1.50 at 25° +/- 5° C		
Glass Beads, Gradation*	705-2.06(B)(3) AASHTO M 247	Shall conform to AASHTO M 247 Type 1 and Type 3.		
Glass Beads, Heavy Metal Composition, ppm*	705-2.06(B)(4)	Arsenic: < 75 ppm		
		Antimony: < 75 ppm		
		Lead: < 100 ppm		

*Applicable only when glass beads are used to reflectorize Type I markings.