

**Future Labs, LLC Highway Safety Products
Testing Fees**

124 Lone Wolf Drive; Madison, MS 39110
Tel – 601-855-7407

For quotes on other testing, contact David at
david@FutureLabsLLC.com

Tests Performed on Road Marking Thermoplastic

AASHTO M-249 / T-250 \$ 550
(Binder/Bead Content, Pigment, Color, Soft. Point, Impact Resist., Low Temp., Specific Gravity, Dry Time, 4hr. Flowability & Extended Flowability) (Bond Strength, Hardness and Flash Point are part of T-250 and not M-249 and for an extra fee of \$305)

Same for: ARDOT, SCDOT, TXDOT,

NCDoT Spec. 1087 \$ 725
(Binder/Bead Content, Pigment, Color, Flash Point, Bond Strength, Soft. Point, Low Temp., Specific Gravity, Indentation Resis., Drying Time, Bead Gradation, Roundness, Pb & As Content)

MassHD Spec. M7.01.03 & 4 \$ 475
(Binder/Bead Content, Pigment or Pb/Cr, Color, Bond Strength, Soft. Point, Impact Resis.(Izod), Low Temp., Specific Gravity, Dry Time, 4hr. Flowability & Extended Flowability)

FDOT Spec. 971-5 \$ 1050
(Binder/Bead Content, Pigment or Pb Content, Color, Flash Point, Soft. Point, Impact Resis.(Izod), Low Temp., Specific Gravity, Indentation Resis., Water Absorb., FTIR Scan, TCLP and Pb& As content by EPA 3052 & 6010B.)

AlabamaDOT \$ 895
Binder Content, Glass Bead Content, Softening Point, Specific Gravity, Flowability, Extended Flowability, Water Absorption, Impact Resistance, Pigment Content, Flash Point, Inert Filler, Low Temp Resistance, Indentation Resistance and Gradation on extracted Beads

AZDOT & NMDOT Spec 704 \$ 1130
(Binder, Bead Content, Pigment, Color, Bond Strength, Softening Point, Impact Resistance, Low Temp. Resistance, Specific Gravity, Water Absorption, Abrasion Resistance, Flashpoint, Flowability, Extended Flowability, Alkyd Identification) (for the UV exposure 500hr white & 1000hr yellow required call for quote)

Caltran Spec \$ 905
(Binder/Bead Content, Pigment& Pb / Cr, Color, Bond Strength, Soft. Point, Hardness, Impact testing (Gardner) Bead Blast Abrasion, Specific Gravity, Thermosel Viscosity) (If Color Stability by ASTM G155 required – call for pricing)

GADOT Sec 653.2 \$ 950
(Binder/Bead Content, Pigment, Color (4hr, 6 hr & 4 reheatings), Soft. Point, Impact Resis., Low Temp., Specific Gravity, Dry Time, 4hr. Flowability& Extended Flowability) GADOT extra tests - Color @ 6 hrs heating - (\$25), Color @ 4 reheatings - (\$75) Taber Abrasion- (\$300)

NYCityDOT & NYStateDOT \$ 425
(some AASHTO M-249 tests on granular sample)

WSDOT Sec. 9-34.3 \$ 700
(AASHTO M 249, Resin Detection, Retroreflection, Skid Resistance)

**Tests Performed on AASHTO M-249
Road Marking Thermoplastic**

Gallon Sample (Melt-Mix-4 hrs at 425°F) \$ 50
Specific Gravity \$ 50
Binder Content \$ 50
Glass Bead Content \$ 60
Pigment Content \$ 75
Daylight Reflectance \$ 15
Color Match and Yellowness Index \$ 25
Dry Time/Curing Time \$ 25
Cracking Resistance at Low Temp. \$ 25
Impact Resistance (non-notch Izod) \$ 75
Softening Point \$ 50
Flowability \$ 25
Extended Flowability \$ 25

Other Tests performed on RMT

Inert Filler Solubility \$ 25
Water Absorption \$ 25
Flash Point \$ 75
Tensile / Bond Strength \$ 155
Brookfield Viscosity (@ 4250F) \$ 155
Beaded Color (ASTM D6628) \$ 75
QUV (ASTM G154 or G155) \$ call
Taber Abrasion Test \$ 225
Hardness Test \$ 75
Skid Resistance \$ 125
Heavy Metal Testing of Thermo
or Intermix Glass Beads
(Pb, As, Cd, Cr, Hg, Ba, Se, Ag, Sb) \$ 225

Testing of Glass Beads under AASHTO M-247

Gradation ASTM D1214 \$ 125
Roundness ASTM D1155 \$125
OR both by AASHTO PP-74 \$ 250
Refractive Index (1.2- 1.7) \$ 60
Flow Characteristics \$ 75
Moisture Proof Coating \$ 50
Flotation Test \$ 50
Adhesion Promoting Coating \$ 75

Other Tests Performed

Chemical Resistance (per element) \$ 30
Water Resistance (Soxhlet) \$ 225
High Refractive Index (1.7- 2.0) \$ 75
Crushing Resistance (2 sizes) \$ 250
Elemental Analysis (all elements) \$ 200

Heavy Metal and other content by XR

TCLP (EPA 1311 & 6010) \$ 300
SPLP (EPA 1312 & 6010) \$ 585

Fed. Std. TT-B-1325D \$ 725
(per sample) (for Glass Beads)

North Carolina Drop-on Bead Testing Spec. 1087
(per sample) \$ 375

Individual Glass Bead Test Prices

Acid Resistance \$ 30
Appearance \$ 25
CaCl2 Resistance \$ 30
Composition \$ 150
Gradation \$ 125
Na2S Resistance \$ 30
Refraction Index \$ 60
Roundness \$ 125
Specific Gravity \$ 75
Water Resistance \$ 125

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Water Based Traffic Paint Tests

***Fed. Spec. TT-P-1952F for Water-borne
Quantitative (Table I) \$ 815***

Stormer viscosity,	\$ 100
VOC (calculated)	\$ 30
Total Vol. Solids,	\$ 100
Pigment by Wt.	\$ 75
Color	\$ 35
Dry Opacity, Fed. Std. 141a, 4121	\$ 50
Drying Time	\$ 75
Fineness of Grind,	\$ 50
Heat-Shear or Freeze-thaw	\$ 250
Bleed Ratio, Fed. Std. TT-P-85D	\$ 50

IF needed to be measured

Resin verification by FTIR (type III)	\$ 300
VOC (EPA 24 / ASTM D3960)	\$ 550
- If VOC not over the limit	
VOC (EPA 24 / ASTM D3960)	\$ 1200
- If VOC requires exempt content	

Other Water Based Paint Tests

Vehicle Solids % on Vehicle	\$ 75
TiO2 Content, ASTM D476	\$ 125
Density (Wt/gal.) ASTM D1475	\$ 100
Flexibility, Fed. Spec. TT-P-115D	\$ 75
Abrasion Res. ASTM D4060	\$ 250
Infrared Analysis per sample	\$ 250
pH	\$ 30
Dry Through, at 90% R H	\$ 150

***Fed. Spec. TT-P-1952F Paint, Traffic and Airfield
Marking (Water-borne) (Table II) \$ 2855***

Heavy Metals Content (Pb & Cr)	\$ 75
Condition in container	\$ 25
Appearance	\$ 25
Accelerated Package Stability	\$ 200
Flexibility	\$ 75
Water resistance	\$ 50
Freeze-thaw stability	\$ 250
Color before and after QUV	\$ 75
Directional reflectance – Color Match	
Heat-shear stability	\$ 250
Skinning	\$ 50
Dry-through (early washout)	\$ 150
Abrasion Res. (before & after weathering)	\$ 450
Accelerated Weathering (300 hours)	\$ 450
Scrub Resistance (before & after weathering)	\$ 300
VOC (calculated)	\$ 30
Consistency	\$ 75
Solids by Volume	\$ 125
Dry Opacity	\$ 50
Dry Time (no pickup)	\$ 75
Fineness of Dispersion	\$ 50
Bleeding Ratio	\$ 50
Pigment (% by weight)	\$ 75

IF needed to be measured

Titanium Dioxide Content (White)	\$ 100
Resin verification by FTIR (type III)	\$ 300
VOC (EPA 24 / ASTM D3960)	\$ 550
- If VOC under the limit	
VOC (EPA 24 / ASTM D3960)	\$ 1200
- If VOC requires exempt content	

Plural Component Traffic Paint Tests

Epoxide Value (WPE) (D1652)	\$ 250
Amine Value (D2074)	\$ 250
Pigment by Wt. (D1259)	\$ 75
Color, Yellowness (per spec.)	\$ 50
Hardness, Type D (D2240)	\$ 75
Abrasion Resistance (Taber)(D4060)	\$ 300
Adhesion to concrete (D7234)	\$ 225
Tensile Strength / Elongation (D638)	\$ 225
Comp. Strength (D695)	\$ 225
Comp. Strength (C579)	\$ ~460
No Track Time (D711)	\$ ~100
Water Absorption (D570)	\$ 75
Stormer Viscosity (D562)	\$ 125
UV exposure (G154, G155)	\$ call
Gel Time (C881)	\$ 75
Brookfield viscosity – Component (D2556)	\$ 125
Brookfield viscosity – Mixture	\$ 150
Thermosel viscosity - Component	\$ 150
Thermosel viscosity – Mixture	\$ 175
Basic VOC (D3960)	\$ 75
VOC (EPA 24/ D3960)	\$ 550
Dry Opacity (D4121)	\$ 75
Bleed Ratio (D969)	\$ 75
Flexibility (D522)	\$ ~100
Heavy Metals (F2617)	\$ 225

High Friction Surface Binder (AASHTO MP-41 was PP-79)

Viscosity, Gel Time, Ultimate Tensile Strength, Elongation at Break, Durometer Hardness, C579 Comp. Strength (3hr & 7 days), Cure Rate, Water Absorption, Adhesive Strength (24 hr)

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Raise Pavement Marker Tests per ASTM D4280

Coefficient of Luminous Intensity	
(1 lens/0o&20o)	\$ 450
(2nd lens)	\$ 300
Retroreflectivity after Abrasion	\$ 400
Longitudinal Flexural Strength	\$ 240
Compression Strength	\$ 200
Color	\$ 145
Lens Impact Strength	\$ 145
Resistance to Temp. Cycling	\$ 200
Total for all tests	\$ 1780

**Additional Tests for Snowplowable RPM per ASTM
D4383 (does not include the Long. Flex. Strength test)**

Ramp Hardness	\$ 75
Adhesive Bond Strength	\$ 225 – 300

**Preformed Retroreflective Pavement Marking (Tapes
and Foils) under ASTM D4505 & D4592**

Retroreflection (ASTM E1710)	\$ 75
Skid Resistance (ASTM E303)	\$ 75
Color, Day/Nighttime (ASTM D6628)	\$ 75
Adhesion – Mtd. A (3 temps) (ASTM D1000)	\$ 600
ASTM D4505 & D4592 Type I (all 4 tests)	\$ 825
ASTM D4592 type II (3 tests, not Skid)	\$ 750
Standard Wet Retro (ASTM E2177)	\$ 100
Continuous Wetting Retro (ASTM E2832)	\$ 150
Tensile and Elongation	\$ 150
Abrasion Resistance	\$ 225
Plastic Pull Test	\$ 25

Preformed Thermoplastic (Flame Tape) Testing

Softening Point	\$ 50
Color	\$ 45
Low Temperature cracking	\$ 50
Impact Resistance (Izod)	\$ 75
% Bead Content	\$ 75
Skid Resistance	\$ 75
Pb content	\$ 75
FTIR scan	\$ 150
TCLP testing (heavy 8)	\$ 300

Detectable Warning Surface

Slip Resistance – Dry or Wet	\$ 585
Abrasive Wear Index	\$ 300
Freeze / Thaw Resistance	\$ 2/hr
Adhesion / Bond Strength (pull off)	\$ 225

*Please contact us if you do not see a test listed and/or
need additional information.*