

Ennis-Flint Reflective Glass Beads

PRODUCT DATA

Product Type: **HP300 High Performance** (Formerly UltraLux®)
Product Code:
Product Color: Clear
Specification: Meets Glass Bead Specs for AASHTO M247 Types 3, 4 & 5
(see additional list below)
Effective Date: 05/20/15

Product Description:

HP300 beads are made from 100% virgin glass. Due to their size, their high roundness (up to 98%) and superior glass composition, expect the highest level of retroreflection, especially on wet-night conditions. HP300 glass beads are one of the most cost-effective and sustainable ways to increase road safety.

Recommended Applications:

- High-quality drop-on, especially with high requirements for wet-night reflection
- Can be applied with standard road marking equipment

Packaging:

50lb bags, 2000lb boxes or super sacks @ 2000, 2200, and/or 2400lbs

Storage:

Store at room temperature.
Store in a dry place.
Very slippery when spilled, pick up immediately.
This product is primarily engineered for pavement and/or runway markings, and is not intended for use in humans.

Roundness:

80% to 95% true spheres, actual is based on customer specification.

Dangerous Substances:

None. Heavy Metals testing as required.

Similar Specifications:

Federal Type 3, 4, and 5
AL Large Type 3 & 4
DE Large
FL Type 3 and 4
GA Large Type 3 & 4
NJ Large
OK Large
SC Large Type 3 & 4
TX Type 3
TT-B-1325 D Type 4A & 4B
Longitudinal (P200 Specs)
MD Blend (P200 Specs)

Chemical Composition (by weight)

Silica (SiO ₂)	62-70%
Aluminum Oxide (Al ₂ O ₃)	0-5%
Calcium Oxide (CaO)	6-17%
Magnesium Oxide (MgO)	1-5%
Sodium Oxide (Na ₂ O)	10-20%
Iron Oxide (Fe ₂ O ₃)	<0.8%

Physical Properties

Specific Gravity	2.48-2.52 g/cm ³
Softening Temperature	650°C
Coefficient of Thermal Expansion	90 x 10 ⁻⁷ /°C (30-300°C)
Strength	60,000 to 65,000 psi.
Vicker Hardness	756,250 psi
Refractive Index	1.50 to 1.55 (nD)

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