



Technical Data Sheet

City of Overland Park, KS Thermoplastic Specification

Section 1086- Thermoplastic Pavement Markings

11314 White KS Alkyd Ribbon Extrude Thermoplastic

21314 Yellow KS Alkyd Ribbon Extrude Thermoplastic

Product Description

Ozark Materials, alkyd-based thermoplastic pavement markings are lead-free premium, blended granular materials that have long service life, excellent adhesion, color and retroreflectivity retention. These markings are designed for extrude application, meeting or exceeding all specifications according to the City of Overland Park, KS Specification Section 1086.

Specifications

Compositional		Typical Values	
		White	Yellow
Binder Content	18.0% minimum	18.9	20.0
Glass Beads	20-50%	30.0	31.3
Titanium Dioxide	10.0% minimum for white	10.8	N/A
Inert Filler	42.0% max. white, 50.0% max. yellow	40.7	46.3
Physical Properties			
Bond Strength	200 psi minimum	475	475
Cracking Resistance	No Cracks	Pass	Pass
Softening Point	200-230°F	222	226
Specific Gravity	1.8-2.15	2.10	2.04
Reflectance	75 min. white, 45 min. yellow	83.5	50.5
Color	Fed. Std. 595 #17875 (White), 13538 (Yellow)	Pass	Pass
Yellowness Index	0.12 maximum (White)	0.082	N/A
Indentation	55 minimum	62	68
Flash Point	475°F minimum	500	500



Water Absorption	0.5% maximum	0.1	0.2
Flowability	18% max. white, 21% max yellow @4 hrs	11	9
	28% maximum @8.5 hrs	13	9
Low Temp. Impact Resist.	No Fracture	Pass	Pass
Abrasion Resistance	0.5 g. loss maximum	0.2	0.3
Set Time	2 minutes maximum @50 +/- 3°F	Pass	Pass
	10 minutes maximum @90 +/- 3°F	Pass	Pass

Packaging

Ozark Materials' thermoplastic products are packaged in 50 lb. ready-melt bags, uniformly palletized 2,000 lbs. of product plus packaging (pallet cap and stretch-wrapped).

Product Usage

Ozark Materials' thermoplastic pavement markings are designed to be stable for 4+ hours at application temperatures of 400-425F. The surface must be clean, dry, and 50F and rising to insure a successful material bond with the substrate. Asphalt more than two years old, and all concrete surfaces, requires the use of sealer/primer before material application.

Product Storage & Shelf Life

Ozark Materials' thermoplastic products should always be kept dry, and indoors if possible. While outdoor storage is acceptable, some application properties may be affected. The shelf life of the material should not exceed 12 months from the date of manufacture.

Ozark Materials, LLC warrants to the purchaser, for 1 year from the date of manufacturing, that this product when applied according to Ozark Materials, LLC Thermoplastic Application Instructions, shall be manufactured without defects. This limited warranty covers material replacement only. Excluded from coverage is labor, any damage to the application surface or any failure of the coating caused other than by defects in the material.