



FUTURE LABS, LLC

Highway Safety Product Testing

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DATE: August 23, 2016

REPORT: The following report covers requirements for Road Marking Thermoplastic tested under methods in AASHTO M-249 and the **Kansas Department of Transportation Section 2211 Thermoplastic Pavement Marking Material.**

PRODUCT: Potter's White Alkyd Road Marking Thermoplastic. **Batch:** TD160801-02
Product Code: ThermoDrop KS A RE W 30i 70 TP1 BG

SAMPLE: The five kilogram sample tested was received on 8/22/2016.

<u>TEST METHODS</u>	<u>SPECIFICATION</u>	<u>RESULTS</u>
Binder Content	18 % minimum	21.00 %
Glass Bead Content	30 - 40%	32.75 %
TiO ₂ Pigment Content <small>(assuming >92% TiO₂ purity)</small>	10% minimum	11.63 %
Color, after 4 hours @ 425° F	Match Federal Standard 17886	Pass
Daytime Luminance Factor	Y-75% minimum	84.55 %
Yellowness Index	0.12 maximum	0.104
Softening Point	200° - 230° Fahrenheit	222 ° F
Impact Resistance	10 inch lbs. minimum	12.33 inch lbs.
Low Temperature Resistance	No Cracks in 24 hours @ -9°C	No Cracks
Specific Gravity	2.15 maximum	2.02
Inert Filler	42% maximum	34.62 %
Flowability (4 hrs)	18% retained maximum	14.44 %
Extended Flowability (8 hrs)	28% retained maximum	15.63 %
Impact Resistance	10 inch lbs minimum	12.33 inch lbs
Drying Time	< 2 minutes @ 50° F	<2 minutes
	< 10 minutes @ 90° F	<10 minutes

Reported by:

Roye Bruce Dawson, Thermoplastics Lab Manager

Potter's MT(9608W)KS-DOT.xls