



The Shepherd Color Company
We Brighten Lives

TECHNICAL DATA SHEET

TDS #401
Revision 0
Page 1 of 1

Yellow 10C151

CI Pigment Yellow 227
CAS # 1374645-21-2

DESCRIPTION:

A chromatic yellow inorganic pigment produced by high temperature calcination. This pigment has excellent UV and visible opacity, is chemically inert, heat resistant, and stable to ultraviolet light. It is non-bleeding and non-migratory. It has exceptional durability and hiding power, and is generally used in applications where resistance to heat, light, and weather are needed. It is compatible with most resin systems and polymers, and is non-warping. Typical applications (non inclusive) are coatings and other applications where equivalent pigment chemistry is used.

This material is patented under US Patent 8,192,541, and foreign patents have been applied for under WO/2011/156362, PCT/US2011/039432.

COMPOSITION: Niobium Sulfur Tin Zinc

Physical/Chemical Property	Typical Value*	Units	Test Method+
Specific Gravity	5.5	n/a	SCTM 312
Loose Packing Density	6.7 0.80	lbs./gal kg/L	SCTM 194
Surface Area (BET)	3.5	m ² /g	SCTM 153
Percent Moisture	0.1	wt. %	SCTM 248
Mean Particle Size	0.9	microns	SCTM 183
Conductivity	14	μS/cm	SCTM 142
Oil Absorption	11	parts oil/100 parts pigment	SCTM134
pH	5.4	n/a	SCTM 101
Residue 325 Mesh	0.01	wt. %	SCTM 135
Heat Stability	600 320	°F °C	Observed

*Values based on limited data +SCTM refers to Shepherd Color Testing Method

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