



The Shepherd Color Company  
We Brighten Lives

# TECHNICAL DATA SHEET

TDS #441  
Revision 0  
Page 1 of 1

## **BLACK 10P923**

C.I. Pigment Brown 29  
CAS # 12737-27-8\*

**DESCRIPTION:** An IR reflective jet black pigment for use in plastics applications. It is highly resistant to acid, base, UV and chemical attack. It has low soluble iron for stability in PVC based materials. The product is optimized for masstone applications where the most neutral masstone color is needed with the highest TSR (Total Solar Reflectance) and lowest HBU (Heat Build-up) to meet performance and regulatory requirements. Suitable for siding, extrusions, building panels, roofing, fibers and plastics applications in general. It is compatible with a wide range of plastics and polymers.

**COMPOSITION:** Chromium and Iron

Physical/Chemical Property	Typical Value	Units	Test Method+
Specific Gravity	5.1	n/a	SCTM 312
Loose Packing Density	10.8	lbs./gal	SCTM 194
	1.3	kg/L	
Surface Area (BET)	3	m <sup>2</sup> /g	SCTM 153
Percent Moisture	0.2	wt. %	SCTM 248
Mean Particle Size	1.3	microns	SCTM 348
Conductivity	52	μS/cm	SCTM 142
Oil Absorption	9	parts oil/100 parts pigment	SCTM134
pH	4.5	n/a	SCTM 101
Residue 325 Mesh	0.02	wt. %	SCTM 135
Heat Stability	1,500	°F	Observed
	800	°C	

+SCTM refers to Shepherd Color Testing Method

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