CREATIVEMATERIALS

www.creativematerials.com

ISO 9001 CERTIFIED

Creative Materials, Inc.
12 Willow Road
Ayer, MA 01432

T 978.391.4700
F 978.391.4705

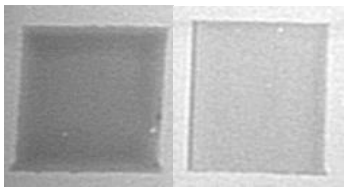
119-31TS

EXTREMELY FLEXIBLE PAD PRINTABLE RADIO OPAQUE INK

DESCRIPTION: 119-31TS is an extremely flexible, pad printable radio opaque ink and coating for application by pad printing and syringe dispensing. The product features excellent adhesion to PEBAX, Kapton, Mylar, glass and a variety of other substrates. Unlike conventional materials this product offers a balance of properties featuring excellent toughness high flexing, crease, and abrasion resistance as well as the ability to elongate and stretch. These properties make 119-31TS well suited for applications including, but not limited to, manufacturing of markers for medical devices and fluoroscopy as well as shielding for security applications. 119-31TS is a more chemically resistant version of 119-31T.

TYPICAL PROPERTIES:

Viscosity (cps)	11,000
Percent Filler (cured)	> 95
Density (cured, g/cc)	12.05
Crosshatch Adhesion (PEBAX)	5B
Pencil Hardness	F
Useful Temperature Range (°C)	-55 to +200
Thermal Stability (°C)	Good to +250



Left: 0.003” Right: 0.001”
Image taken at 100 KV and 100 µA

SUGGESTED HANDLING: 119-31TS is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI thinners 113-39 or 127-32R2. Prior to use, be certain to mix well to resuspend filler.

SUGGESTED CURING: Best properties, for most applications, result when cured following one of the below cure schedules but good results can be attained with temperatures between 110° and 200°C. End user is advised to experimentally determine temperature and time best suited for individual applications though higher temperatures are recommended for difficult to stick to substrates.

Time (min.)	Temp. (°C)
30 – 45	125
5 – 10	150
2 – 5	175

STORAGE: Shelf life: ≤ 4 weeks at 25°C; or 6 months at -20°C; or 12 months at -40°C.

SAFETY & HANDLING: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to suitability in a particular application or possible infringements on patents.

REVISION DATE: 12/18/19 REVISION: A