

PRO-SHIELD® 7178

SILVER FILLED POLYESTER ELECTRICALLY CONDUCTIVE INK



Customer Value Proposition:

Parker Chomerics PRO-SHIELD 7178 is a silver filled polyester electrically conductive ink developed for membrane switch applications as well as force sensitive devices.

PRO-SHIELD 7178 ink bonds tenaciously to polyethylene terephthalate* (PET) film and the coated film may be creased, heat formed, scratched, pounded and generally abused without affecting the performance of the conductive ink.

PET film based membrane keyboards, made with PRO-SHIELD inks, have survived tests which produce 12 ounces of force on an area 0.100 x 0.100 inch up to one million times.

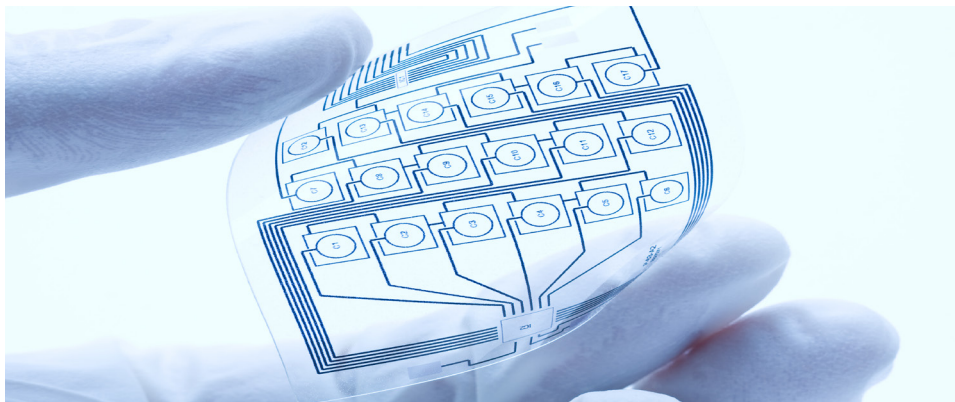
Because of the abrasion resistance of the cured ink, PRO-SHIELD 7178 ink may be used on termination tails in conjunction with a vast variety of crimp and pressure connectors.

Contact Information:

Parker Hannifin Corporation
Chomerics Division
77 Dragon Ct.
Woburn, MA 01801 USA

phone 781 935 4850
fax 781 933 4318
CHOmailbox@parker.com

www.parker.com/chomerics



Product Features:

- Flexible coating which provides great adhesion to a variety of substrates
- Excellent wettability allows for uniform coating application at thin dry film thicknesses (< 0.001")
- One component solution, no measuring and mixing of components is required
- Designed for screen printing applications
- Exceptional working life (required elevated temperature heating)
- Exceptional working life at room temperature. Cures only when heated, i.e., greater than 74°C (165°F).

Typical Applications:

- Life science equipment
- Test equipment
- Communication devices
- Cellphones and laptops
- Consumer electronics
- Aerospace applications
- Drones and other RC vehicles

CHOMERICS and PRO-SHIELD is a registered trademark of Parker Hannifin Corporation. ® 2019

PRO-SHIELD 7178



ENGINEERING YOUR SUCCESS.

Product Information

PRO-SHIELD 7178 ELECTRICALLY CONDUCTIVE INK

PRO-SHIELD 7178		
Typical Properties	Typical Values	Test Method
Packaging	125 mL Bottle	N/A
Primer Included	N/A	N/A
Polymer Family	Polyester	N/A
Filler Material	Silver	N/A
Color	Silver	N/A
Shielding Effectiveness (dB) Avg.	>85 dB	CHO-TM-TP11
Surface Resistivity (ohm-sq)	0.070	CEPS-0002 (Q/C)
Calculated VOC (g/L)	678	Calculated
Average solids (weight) %	67.5	Calculated
Average solids (vol.) %	31.4	Calculated
Specific Gravity	2.1	ASTM D792
Theoretical Coverage (ft ² /gal) @ Recommended Thickness	504	Calculated
Recommended Thickness (mil)	0.001	N/A
Shelf life, date of manufacture (months)	9	N/A

Ordering Information

Part Number	Packaging	Weight (grams)
90-00-7178-0000	125 mL Bottle	100



WARNING: This product contains chemicals known by the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov