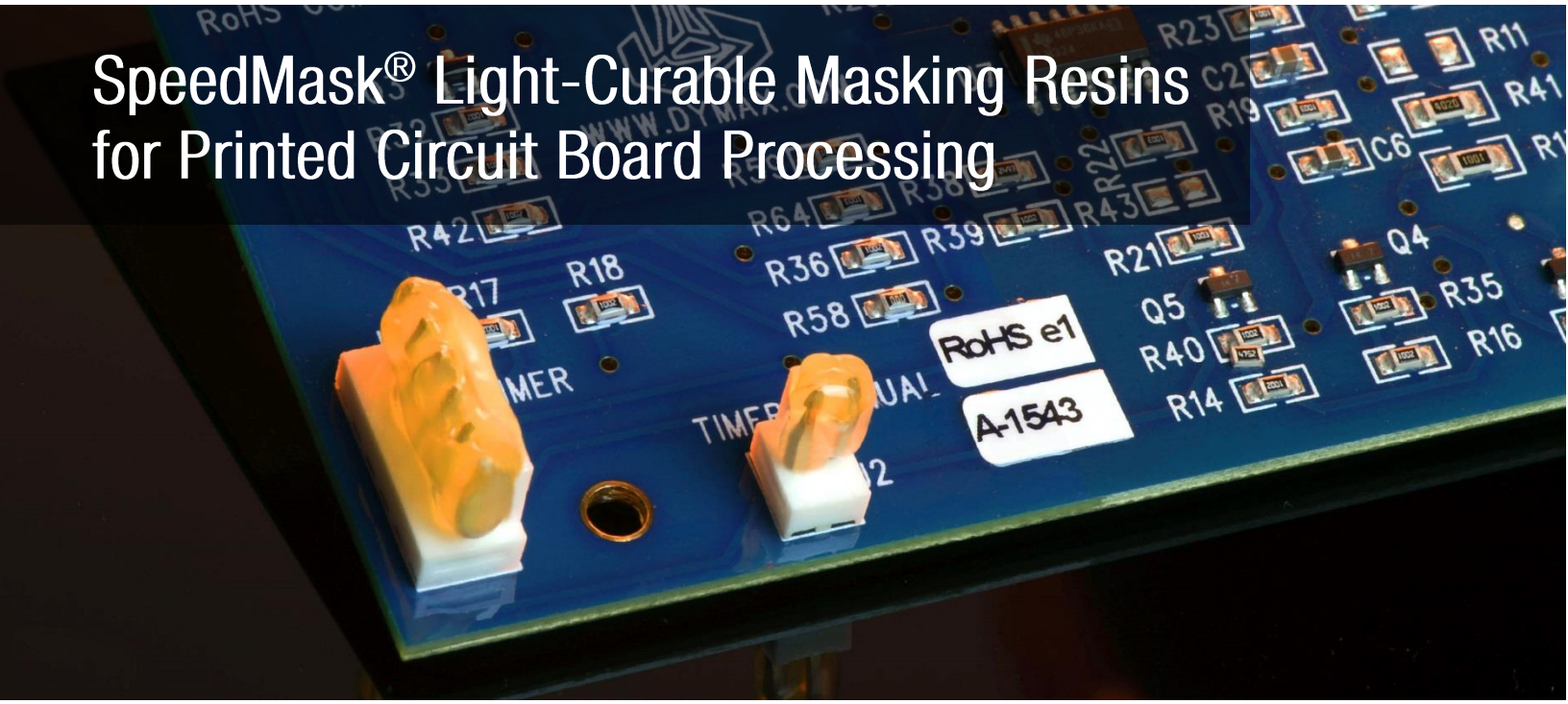
SpeedMask® Light-Curable Masking Resins for Printed Circuit Board Processing



Peelable Masking Resins Offer Superior Protection of PCB Components During Processing

SpeedMask® peelable electronic masks are solvent-free, 100% solids resins designed for the masking of printed circuit board components prior to conformal coating application or wave solder and reflow processes. They cure in seconds “on-demand” when exposed to UV/Visible light. The fast cure allows boards to be immediately processed without the need for racking or waiting. The masks have low odor and require no special venting. The cured materials also leave no silicone, ionic contamination, or corrosive residues.

- 100% Solids / Non-ionic
- UV/Visible light cure in seconds for faster processing
- Bright colors for high visibility
- Fluorescing grades for easy in-line inspection
- One part, solvent free – no mixing
- Rapid cure speeds allow for flexibility in production volumes

Product Number	Description	Viscosity, cP	Shore Hardness	Elongation at Break, %	Tensile at Break, MPa [psi]
9-20479-B-REV-A	Blue in color for easy visual inspection; compatible with gold and copper connector pins; silicone free; solvent free; halogen free; exceptionally thixotropic for manual or automated dispensing	125,000	A75	140	3.37 [490]
9-318-F	Highly thixotropic for manual or automated dispensing; solvent free; silicone free; very low VOCs; blue fluorescing	50,000	A55	130	3.0 [440]
9-7001	Visible pink color in uncured state; resistant to solvent-based conformal coatings and primers; compatible with gold and copper connector pins; lower shrinkage; silicone free	40,000	A70	180	3.8 [560]

To download product data sheets for Dymax electronic peelable masks, visit dymax.com/adhesives/electronics/peelable-maskants

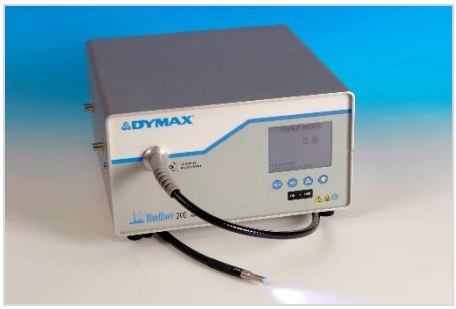
Application

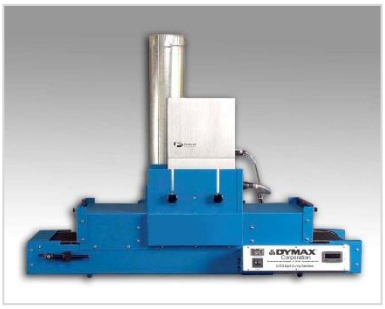
Dymax electronic masks can be used to protect many different PCB substrates including FR-4, ceramic, gold fingers or frames, connectors – surface mounted and raised as well as the many materials used in the manufacture of electronic components. The masks are available in a variety of packaging sizes for easy automated dispensing from standard pressure-fed dispensing equipment.

Application	9-7001	9-318-F	9-20479-B-REV-A
Solvated Conformal Coating	✔	Not Compatible	Not Compatible
UV Conformal Coating	✔	✔	✔
Ease of Removal from Connectors after CC Process	✔		
Less than 5 Seconds Cure Required	✔	✔	✔
Depth of Cure	11 mm in 5 seconds	5 mm in 5 seconds	5.5 mm in 5 seconds

Recommended Light-Curing Systems

Light Source	Intensity at 365 nm	Typical Cure Time to ¼" Depth	Applications
5000-EC Flood Lamp System (moderate intensity)	200 mW/cm^2	<20 seconds	Curing beads over a 5 in. x 5 in. areas
BlueWave® 200 Spot-Cure System (uses lightguide)	10,000 mW/cm^2	<10 seconds	Curing small areas 0.35 in. diameter
UVCS Conveyor with Fusion F300S (highest intensity focused beam)	2,500 mW/cm^2	<5 seconds	Fastest cure speeds; ideal for curing multiples





LIT025 2/27/2017

Dymax Corporation
+1.860.482.1010 | info@dymax.com | www.dymax.com

Dymax Oligomers & Coatings
+1.860.626.7006 | info_oc@dymax.com | www.dymax-oc.com

Dymax Asia (H.K.) Limited
+852.2460.7038 | dymaxasia@dymax.com | www.dymax.com.cn

Dymax Europe GmbH
+49 611.962.7900 | info_de@dymax.com | www.dymax.de

Dymax UV Adhesives & Equipment (Shanghai) Co. Ltd.
+86.21.37285759 | dymaxasia@dymax.com | www.dymax.com.cn

Dymax Asia Pacific Pte. Ltd.
+65.6752.2887 | info_ap@dymax.com | www.dymax-ap.com

Dymax Engineering Adhesives Ireland Ltd.
+353 21.237.3016 | info_ie@dymax.com | www.dymax.ie

Dymax UV Adhesives & Equipment (Shenzhen) Co. Ltd.
+86.755.83485759 | dymaxasia@dymax.com | www.dymax.com.cn

Dymax Korea LLC
+82.2.784.3434 | info_kr@dymax.com | www.dymax.com/kr