Westinghouse Electric Corporation
Insulating Materials Division
Manor, Pennsylvania, U.S.A. 15665

December 1, 1980
New Information
Mailed to: E, D, C/2169/DB

B-276 Conformal Coating Grade (for flexible printed circuitry)

Description
Westinghouse B-276 is a solution of styrene-epon co-polymer for use as a conformal coating for flexible printed circuits made with Westinghouse copper clad insulations. It provides a fast drying vehicle of high epoxy resin content (without the limitations of a catalyst). Suitable for applications where a hard mar and chemical resistance is required. Application method is dipping, spraying, or screening. Air drying. A baking modification is available.

Curing Modifications
B-276 is compatible with most urea and melamine resins, and when modified with these materials provides an outstanding vehicle for baking enamels for dip or spray applications. No driers are required. Quick conversion can be accomplished by baking at 150°C. for 15-20 minutes to provide increased adhesion and resistance characteristics.

Other Applications:
This styrenated epoxy vehicle can be used in primers and finishes for structural steel, electrical and electronic apparatus, and general industrial machinery and equipment.

Varnish Specification

Type	Styrenated Epoxy Varnish
Thinner	Xylol (Toluol or high flash naphtha may be used)
Viscosity At 25° C. (Demmler #1)	150-250 Seconds
Specific Gravity @ 25° C.	960-965
Solids Content	51 ± 1%
Drying Time, To Touch	10 Minutes
ASTM Drying Time @ 25°C	1 hour max.
Oil Resistance, ASTM	OK, passes
Flex Life or Heat Resistance @ 110° C. ASTM	5160 Hours (no failures)
@ 150° C. ASTM	432 Hours
Gel Time @ 135° C.	Does not gel
Adhesion to Copper	Excellent
Adhesion to Steel	Excellent
Dielectric Strength – Dry (ASTM)	2100 Volts/Mil
Dielectric Strength – Wet (ASTM)	1200 Volts/Mil
Flash Point of Varnish	82° F.

Printed in U.S.A.