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



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

# B-185-4
# Clear Baking Varnish

Westinghouse B-185-4 is a modified polyester varnish for use in Class A, B, F, and H, insulation systems. It exhibits outstanding compatibility with the new Amide-Imide type wire enamels, as well as conventional enamels.

**Features:**
- Excellent flexibility
- Excellent adhesion
- Good Build-up
- Certificate of compliance with MIL-I-24092, Type M, Class 155, can be supplied
- Certificate of approval can be given to those acting for government agencies.

**Thermal Life**
Westinghouse B-185-4 has a thermal life of 20,000 hours at 190°C as determined by IEEE #57 test using MW-35 wire.

**Bond Strength – Helical Coil**
1 Mil build per dip, reverse dip, cure 4 hours at 150°C per dip.

| **Room Temperature** | **150°C.** |
|---|---|
| 19 lbs. | 3 lbs. |

**Descriptive Information**

| | |
|---|---|
| Type | Modified Polyester |
| Color | Light Amber |
| Thinner | Xylol |
| Flash Point | 81° F. |
| Non-Volatile | 48±2% |
| Specific Gravity | 0.895 – 0.920 |
| Viscosity (Demmler #1 @ 25° C.) | 30-60 Seconds |
| ASTM Drying Time @ 135° C. | 25 Minute Max. |
| Gel Time @ 135° C | 75-100 Minutes |
| Corrosion Effect on Copper | None |
| Dielectric Strength – Dry | 3050 Volts/Mil |
| Dielectric Strength – Wet | 2350 Volts/Mil |
| Water Resistance | Excellent |
| Acid Resistance (10% Sulfuric) | Excellent |
| Alkali Resistance (10% Sodium Hydroxide) | Excellent |
| Salt Water Resistance | Excellent |
| Oil, ASTM D-115 | Passes |
| Thermal Life (IEEE #57 Procedure) @ 190° C. | 20,000 Hours |
| @ 180° C. | 40,000 Hours |
| Recommended Curing Cycle | 6-12 Hrs @ 135° C. |

**Recommended Applications:**
- Transformers (distribution, power, instrument, etc.)
- Stators
- Armatures (other than high speed application and tool armatures)
- Form wound coils; random wound coils
- Random wound coils

**Packaging Information**
Westinghouse B-185-4 Clear Insulating Varnish is available in 1-gallon cans, 5-gallon pails, and 55-gallon drums.

Printed in U.S.A.

**The information contained herein is intended as a guide and should not be construed as a performance guarantee as the Company has no control over the manner in which others may employ the product.**

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