



## Industrial Specialties

# POLYOX™ Water Soluble Resins for Antistatic Films

## High Conductivity Enables Enhanced Antistatic Properties



# POLYOX™ Water Soluble Resins Improve Antistatic Properties of Polyolefin-based Electrostatic Films Used to Package Circuit Boards, as well as Other Sensitive Electronic Products

Polyolefins – like polyethylene and polypropylene – naturally exhibit relatively high electrostatic retention. Therefore, films made from these materials tend to attract dust and dirt on their surfaces, dirt that can harm sensitive electronic components and devices.

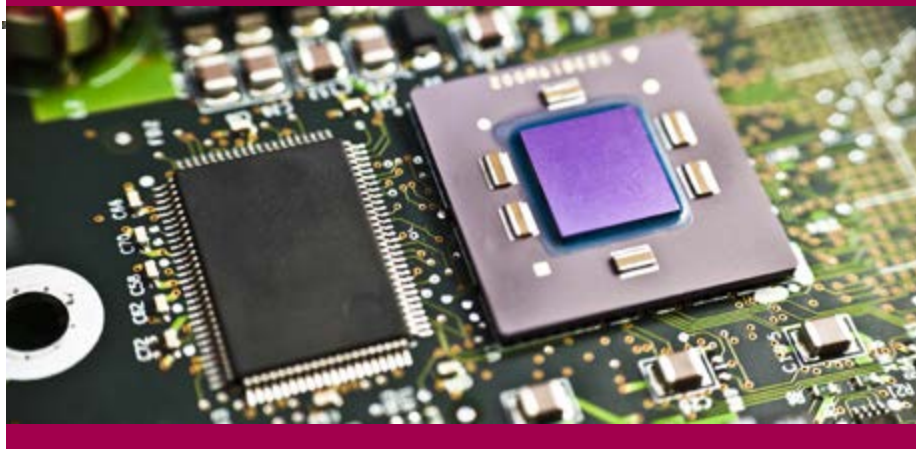
In contrast, POLYOX™ resins have significantly higher conductivity ( $10^{-8}$  S/cm) than those of other polymers (typically  $10^{-12}$  to  $10^{-15}$  S/cm).

Formulators who want the best performance for their compositions can choose to add POLYOX™ to their polyolefin – based compositions (by pre-mixing the dry polymer powder before melting, then melt-blending the ingredients and extruding them into films).

## Formulation Example:

Component	Amount
Polyolefin	100 parts
Filler (e.g. silica, mica, talc, barium sulfate etc.)	20 – 40 parts
POLYOX™ WSR N-10	1.5 – 4 parts

**Recommended Grades:**  
**POLYOX™ WSR N-10,**  
**POLYOX™ WSR N-3000,**  
**POLYOX™ WSR-205**



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