



KUBER POLYFILMS

TECHNICAL DATA SHEET (TDS)

Protective PE Buffer Film for Ultrasonic Welding Applications

Protective PE Buffer Film by Kuber Polyfilms is a specialized high-temperature resistant polyethylene film designed for use as a protective buffer layer between the ultrasonic horn and the thermoplastic component during ultrasonic welding. This film prevents surface marking, flash formation and cosmetic defects, ensuring superior appearance and product quality in critical industrial applications.

Parameter	Specification
Material	High Temperature Resistant Polyethylene (PE)
Application	Buffer / Protective sheet for ultrasonic welding
Thickness Range	30 – 100 microns (custom thickness available on request)
Width Range	2 inches to 82 inches
Form	Roll form / Cut sheets as per requirement
Operating Frequency	Optimized for 20 KHz ultrasonic welding (other grades available)
Damping Property	Excellent ultrasonic energy absorption & dissipation
Surface Finish	Smooth, non-stick protective surface
Heat Resistance	High resistance to localized ultrasonic heat

Key Features & Advantages:

- Prevents weld marks, flash marks and cosmetic defects on molded parts
- Fills surface voids caused by sinks, warpage and contour variations
- Protects painted, decorated and high-gloss surfaces during welding
- Excellent damping properties to absorb and dissipate ultrasonic energy
- Reduces tool wear and improves process consistency
- Economical and reusable solution recommended by industry experts
- Suitable for continuous production environments

Compatible Thermoplastics:

PE • PP • PVC • PS • PET • PC • ABS • Nylon (PA) • PEEK • PPS

Typical Applications:

High-value electronics • Medical devices • Automotive controls & instrumentation • Consumer electronics • Appliances • Painted & decorated plastic parts

Manufacturer & Exporter: Kuber Polyfilms, New Delhi, India | Phone / WhatsApp: +91-9953030444 | Email: info@kuberpolyfilms.com / exports@kuberpolyfilms.com | Website: www.kuberpolyfilms.com