



Chemical Recycling and Re-utilization Technology of Waste PU Foam

□ Introduction

The recycling of waste PU (polyurethane) foam is currently challenging, with only a limited portion being physically recycled for downgrading utilization. The PU depolymerization technology developed by ITRI Industrial Technology Research Institute can break down waste foam into a polyol slurry. With suitable formulation designs, the reprocessed foam exhibits performance comparable to that of new PU foam.

□ Technical features

- ✓ No by-products and wastes
- ✓ r-polyol products can be fully reused for PU soft foam
- ✓ Can drop-in original foam manufacture processes

□ Applications

- ✓ Furniture- mattress & sofa
- ✓ Seats / sport goods

