



End of Life Recovery Options

Identification of Materials		Material Recovery Opportunities		
Material	Example Components	Recycling Notes	Higher Value Opportunity	Lower Value Opportunity
Please visit www.recyclingmarkets.net to find a recycling outlet nearest to you.				
Plastic				
Acetal (POM)	Arms Clips Spacers	Actively recycled into raw polymer by industrial plastic recyclers. It is important to note, however, that recycled plastic markets are highly variable and acceptance of a given material fluctuates based upon multiple factors (e.g. material type, quantity, presence of contaminants, markets for that material, etc). Recycling value is improved with greater quantities and accurate material identification (i.e. identified by base polymer, filler, and additive content).	Recycled POM Regrind	Mixed Thermoplastic Compression Molding
Acrylonitrile Butadiene Styrene (ABS)	Plates Glides Trim Seat Backs Head Rests Tablet Pen Holders		Recycled ABS Regrind	
Acrylic (PMMA)	N/A		Recycled PMMA Regrind	
High Density Polyethylene (HDPE)	N/A		Recycled HDPE Regrind	
Low Density Polyethylene (LDPE, LLDPE)	N/A		Recycled LDPE Regrind	
Nylon (PA)	Backs Back Frames Seat Sliders Seats		Recycled PA Regrind	
Polyethylene Terephthalate (PET)	N/A		Recycled PET Regrind	
Polypropylene (PP)	Seat Bottom Plastics Lumbar Support Stacking Chair Shells Seats Backs		Recycled PP Regrind	
Polystyrene (PS, EPS, HIPS)	N/A		Recycled PS Regrind	
Polyvinyl Chloride (PVC)	Spacers		Recycled PVC Regrind	
Polyurethane (PU)	Molded Arms Arm Pads Lumbar Supports	Recycled PU Regrind		
Polyurethane Foam	Seats Backs Arm Caps	Actively recycled by foam manufacturers and recyclers into carpet padding.	Recycled Carpet Padding	
Metals - Ferrous (e.g. Steel, Iron)				
Steel	Chair Frames Fasteners Gas Lifts	Actively recycled into raw ferrous metal ingot. Ferrous metals are easily separable from other materials through shredding and magnetic separation. Therefore, many metal recyclers will accept ferrous metals which contain small amounts of mixed materials (e.g. plastic, aluminum).	Recycled Steel Ingot	Off Grade Ferrous Ingot
Metals - Non-Ferrous (e.g. Aluminum, Stainless Steel, Zinc Die Cast, Brass)				
Cast Aluminum	Lounge Chair Bases Bases Mechanism housings Back Support Brackets Writing Tablets Arm Brackets Circular Arms Fasteners Connectors Lumbar Supports Sliders	Actively recycled into raw metal ingot. Non-ferrous metals are not separable through magnetic separation. Recycling value is improved with greater quantity and accurate material identification (e.g. metal grade).	Recycled Cast Grade Aluminum Ingot	Recycled Off Grade Aluminum Ingot
Extruded Aluminum	Back Support Ratchet Frames		Recycled Extruded Grade Aluminum Ingot	Recycled Off Grade Aluminum Ingot
Stainless Steel	Fasteners		Recycled Stainless Steel Ingot	Recycled Off Grade Ferrous Ingot
Zinc Die Cast	N/A		Recycled Zinc Die Cast Ingot	Recycled Off Grade Zinc Ingot
Brass	Plastic Inserts		Recycled Brass Ingot	Recycled Off Grade Brass Ingot
Textiles				
Elastic Material	Seat Webbing	Recycling possible into non-woven fabrics.	Recycled fibers used in non-woven products	Landfill Disposal
Natural Fabrics	Seat/Back, Arm Caps - Determined by customer at time	Recycling possible into non-woven fabrics.		
Polyester Fabrics	Seat/Back, Arm Caps - Determined by customer at time	Recycling possible into raw polymer.		
Mixed Fabrics	Seat/Back, Arm Caps - Determined by customer at time	Recycling possible into non-woven fabrics.		
Vinyl	Seat/Back, Arm Cap upholstery - Determined by customer at time of order.	Recycling possible only through extraction based processes.	Recycled PVC polymer through extraction based processing	
Wood / Biobased Materials				
Plywood	Seats Backs Arm Pads	Not currently actively recycled due to process and economic limitations. Reuse or refurbishment are currently the best options for these materials. As a low value option, the	Not Actively Recycled (Currently)	Waste to Energy
Hardwood	Chair Legs			
Other				
Laminate	Back Panels	Reuse is currently the best options for this material. As a low value option, the energy content can be reclaimed in a designated waste-to-energy facility equipped with proper pollution control technologies.	Not Actively Recycled (Currently)	Waste to Energy