



End of Life Recovery Options

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Identification of Materials		Material Recovery Opportunities		
Material	Example Components	Recycling Notes	Higher Value Opportunity	Lower Value Opportunity
Plastic				
Acetal (POM)	internal bushings on chair control mechanisms	Actively recycled by foam manufacturers and recyclers into carpet padding.	Recycled POM Re grind	
Nylon (PA)	chair bases (with glass reinforcement)		Recycled PA Re grind	
Polypropylene (PP)	outer backs		Recycled PP Re grind	
Polyurethane Foam	foam cushioning on upholstered chairs		Recycled Carpet Padding	
Metals - Ferrous (e.g. Steel, Iron)				
Steel	chair controls, bars connecting back to chair, frames on stack chairs	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	optional chair base	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			Recycled Extruded Grade Aluminum Ingot	Recycled Off Grade Aluminum Ingot
Textiles				
Natural Fabrics	determined by customer at time of order	Recycling possible into non-woven fabrics.	Recycled fibers into shoddy for use in non-woven products	Landfill Disposal
Polyester Fabrics	determined by customer at time of order	Recycling possible into raw polymer.		
Mixed Fabrics	determined by customer at time of order	Recycling possible into non-woven fabrics.		
Vinyl	determined by customer at time of order	Recycling possible only through extraction based processes.	Recycled PVC polymer through extraction based processing	
Leather	determined by customer at time of order			
Wood / Biobased Materials				
Particleboard		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 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
Medium Density Fiberboard (MDF)				
Plywood	inner construction (seat and back)			
Hardwood	optional arm and chair base caps			
Other				
Laminate	surface material on optional tablet arm	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 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