

Supply Chain Packaging Optimization Checklist

Material Selection & Sustainability

Assess packaging materials for environmental impact, recyclability, and renewable content.

Primary Packaging Material?
Corrugated Cardboard
Plastic (PET, HDPE)
☐ Paper
Glass
☐ Metal
Percentage of Recycled Content (Minimum)
Enter a number
Sustainability Certifications Required?
FSC (Forest Stewardship Council)
SFI (Sustainable Forestry Initiative)
Recycled Claim Standard
ISCC (International Sustainability and Carbon Certification)

Domestic	
☐ International	
Justification for Material Choice	
Write something	
Material Safety Data Sheet (MSDS) L Upload File	
Size & Weight Reduction Evaluate opportunities to minimize packaging dimensions and weight to reduce ransportation costs and material usage.	
Current Package Weight (kg)	
Enter a number	
Target Package Weight Reduction (kg)	
Target Package Weight Reduction (kg)	
Target Package Weight Reduction (kg) Enter a number	

	ber
Material Re	duction Strategy
Thinning N	Material
Downsizin	g Overall
	ntweight Alternatives
Combinati	on
Details on S	Size & Weight Reduction Initiatives
Write somet	hing
rotectiv	ve Performance
onfirm adequ	Ve Performance ate protection against damage during handling and transit through drop, compression testing.
onfirm adequa	ate protection against damage during handling and transit through drop,
onfirm adequa	ate protection against damage during handling and transit through drop, compression testing. leight (inches)
onfirm adequation, and o	ate protection against damage during handling and transit through drop, compression testing. leight (inches)
onfirm adequation, and of the control of the contro	ate protection against damage during handling and transit through drop, compression testing. leight (inches)

Compression Test Load (lbs)	
Enter a number	
Prop Test Orientation(s)	
Тор	
Bottom	
Side	
Corner	
Pass/Fail Criteria	
No visible damage	
Minimal cosmetic damage	
Product functionality maintained	
Damage Observations (if applicable)	
Write something	
est Photo/Video (if applicable)	
♣ Upload File	

Compliance & Regulations

Verify compliance with relevant packaging regulations (e.g., weight limits, material restrictions, labeling requirements).

Applicable Regulations (e.g., ISPM 15, UN Packaging)
☐ ISPM 15
UN Packaging Standards
REACH
RoHS
Food Contact Regulations
Other - Specify in LONG_TEXT
Specify 'Other' Regulation (if selected)
Write something
Write Something
Maximum Gross Weight (kg/lbs)
Enter a number
Maximum Dimensions (Length x Width x Height - cm/in)
Enter a number
Country-Specific Requirements (if applicable)
Yes - Specify in LONG_TEXT
□ No
Specify Country-Specific Requirements (if applicable)
Write something

Supporting Documentation (e.g., certificates, permits) ♣ Upload File **Cost Analysis & ROI** Calculate the total cost of packaging, including materials, labor, and disposal, and assess the return on investment of optimization efforts. **Current Packaging Material Cost per Unit** Enter a number... **Proposed Packaging Material Cost per Unit** Enter a number... **Current Labor Cost per Unit (Packaging)** Enter a number... **Proposed Labor Cost per Unit (Packaging)** Enter a number...

Current Transportation Cost per Unit (Affected by Packaging)

Enter a number...

Proposed Transportation Cost per Unit (Affected by Packaging)		
Enter a number		
Estimated Annual Volume of Units Packaged		
Enter a number		
Estimated Implementation Cost (New Packaging/Equipment)		
Enter a number		
Estimated Payback Period (in months)		
Enter a number		
Design for Automation		
Evaluate packaging design to ensure compatibility with automated packaging and ulfillment processes.		
Packaging Type Compatibility		
Flow-wrap machines		
Case erectors Tray formers		
Label applicators		
Carton sealers		

Enter a number			
Maximum Product Dii	nensions (inches - Len	yth)	
Enter a number			
Maximum Product Dii	nensions (inches - Wid	h)	
Enter a number			
Maximum Product Dii	nensions (inches - Heig	ht)	
Maximum Product Dir	nensions (inches - Heig	ht)	
Enter a number		ht)	
		ht)	
Enter a number Barcode/QR Code Pla		ht)	
Enter a number Barcode/QR Code Pla		ht)	
Enter a number Barcode/QR Code Pla Top Bottom	cement	ht)	

Branding & Marketing

Review packaging design to ensure alignment with brand guidelines and marketing objectives.

Write something	
Upload approved brand logo files (vector format) ① Upload File	
Select desired packaging color palette (align with brand guidelines) Primary Brand Color Secondary Brand Color Neutral Accent Color	
Font family to be used on packaging (consistent with brand) Write something	
Notes regarding imagery or graphics to be used Write something	

Supplier Collaboration

Assess and improve collaboration with packaging suppliers for innovation and cost savings.

Current Communication Methods
Write something
Joint Improvement Initiatives
Cost Reduction
Sustainability
Quality
Lead Time Reduction
Innovation
Frequency of Supplier Meetings (per month)
Enter a number
Last Joint Innovation Workshop Date
Enter date
Supplier Feedback Mechanism
Formal Surveys
Regular Meetings
☐ Informal Communication
Dedicated Portal
Supplier Collaboration Agreement (if applicable)
♣ Upload File

Transportation Optimization

Analyze the impact of packaging changes on transportation efficiency (e.g., pallet utilization, cube optimization).

Enter a number Cube Utilization Rate (m³) Enter a number Primary Transportation Mode Truckload (TL) Less-than-Truckload (LTL) Rail Air Ocean Transportation Optimization Strategies Implemented Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days) Enter a number	verage Pallet Utilization (%)	
Primary Transportation Mode Truckload (TL) Less-than-Truckload (LTL) Rail Air Ocean Transportation Optimization Strategies Implemented Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)	Enter a number	
Primary Transportation Mode Truckload (TL) Less-than-Truckload (LTL) Rail Air Ocean Transportation Optimization Strategies Implemented Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)		
Primary Transportation Mode Truckload (TL) Less-than-Truckload (LTL) Rail Air Ocean Transportation Optimization Strategies Implemented Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)	ube Utilization Rate (m³)	
Truckload (TL) Less-than-Truckload (LTL) Air Ocean Transportation Optimization Strategies Implemented Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)	Enter a number	
Less-than-Truckload (LTL) Rail Air Ocean Transportation Optimization Strategies Implemented Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)	imary Transportation Mode	
Rail Air Ocean Transportation Optimization Strategies Implemented Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)	Truckload (TL)	
Air Ocean Transportation Optimization Strategies Implemented Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)		
Transportation Optimization Strategies Implemented Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)		
Transportation Optimization Strategies Implemented Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)		
Route Optimization Software Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)	CCCAIT	
Consolidation of Shipments Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)		
Negotiated Rates with Carriers Mode Shift Backhauling Average Transit Time (Days)		
Mode Shift Backhauling Average Transit Time (Days)		
Backhauling Average Transit Time (Days)		
Average Transit Time (Days)		
	j backi lauling	
Enter a number	verage Transit Time (Days)	
	Enter a number	

Details on Carrier Negotiation Results
Write something
End-of-Life Management Plan for proper disposal or reuse of packaging materials, including recycling, composting, or return programs.
Primary Disposal Method Recycling Composting Landfill Reuse/Refill Other
Materials Recycled/Composted Corrugated Cardboard Plastic Film Paper Metal Wood Other
Estimated Recycling Rate (%) Enter a number

Last Packaging Waste Audit Date	
Enter date	
Details of Return/Refill Program (if applicable)	
Write something	
Documentation of Recycling/Composting Agreements	
♣ Upload File	
♣ Upload File	
♣ Upload File Supplier Responsibility for End-of-Life ■ Supplier Responsible	
Supplier Responsibility for End-of-Life	
Supplier Responsibility for End-of-Life Supplier Responsible	