

Plastics Manufacturing BOM Resin Quality Checklist

Resin Identification & Specifications

Verification of resin type, grade, and compliance with defined specifications.

Resin Type	
Polyethylene (PE)	
Polypropylene (PP)	
Polyvinyl Chloride (PVC)	
Polystyrene (PS)	
PET (Polyethylene Terephthalate)	
Other	
Resin Grade	
Molecular Weight (Avg)	
Midlecular Weight (Avg)	
Enter a number	
Density (g/cm³)	
Enter a number	

Specification Sheet Reference	
Write something	
Specification Sheet	
♣ Upload File	
Opioad Tile	
Filler Type (if applicable)	
None Calcium Carbonato	
Calcium Carbonate	
Talc	
I I Clav	
ertificate of Analysis (CoA) Revi	ew
ertificate of Analysis (CoA) Revisessment of CoA data, including properties and testing re	
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ertificate of Analysis (CoA) Revisessment of CoA data, including properties and testing reLot Number Enter a number Molecular Weight (Avg)	

Density (g/cm³)	
Enter a number	
Moisture Content (%)	
Enter a number	
CoA Verified?	
Yes	
□ No	
Comments/Observations	
Write something	
Physical Property Testing	
Confirmation of key physical properties (e.g., density, viscosity, melt flow index).	
Density (g/cm³)	
Enter a number	
Viscosity (Pa·s)	
Enter a number	

Enter a number	
Moisture Content (%)	
Enter a number	
Particle Size (μm)	
Enter a number	
Measurement Method	
ASTM	
ISO	
Company Standard	
Measurement Date	
Enter date	
hemical Property Testing	
aluation of chemical characteristics (e.g., purity, moisture content).	
Moisture Content (%)	

Enter a number	
Ash Content (%)	
Enter a number	
Acidity (meq/g)	
Enter a number	
Gas Chromatography - Mass Spectrometry (GC-MS) Report
) Report
Test Method Used (e.g., ASTM, ISO) ASTM) Report
Test Method Used (e.g., ASTM, ISO) ASTM ISO) Report
Test Method Used (e.g., ASTM, ISO) ASTM ISO Internal Method	

laze Percentage	
Enter a number)
Color Consistency (Visual)	
Excellent	
Good	
Fair	
Poor	
Detailed Color Description (if applicable)	
Write something	
	<i>•</i> /
Color Sample Photo (for reference)	
4 Upload File	
Transparency Rating	
☐ Opaque	
Translucent	
Transparent	

Batch Traceability & Documentation

Verification of batch numbers, lot records, and related documentation.

Batch Number	
Enter a number	
Date Received	
Enter date	
Supplier Comments (if any)	
Write something	
Document Status	
☐ Approved	
Pending Review Rejected	
CoA Document	
♣ Upload File	
Lot Origin Information	
Write something	
).

Supplier Quality Assurance

Assessment of supplier certifications and quality management systems.

Supplier Certification Status ISO 9001 Certified IATF 16949 Certified Other (Specify)
Supplier Audit Frequency
Write something
Last Audit Score
Enter a number
Date of Last Audit
Enter date
Audit Findings Summary
Write something
Audit Report (PDF) ① Upload File

Supplier Performance Rating	
Excellent	
Good	
Average	
Needs Improvement	
Storage Conditions	
Storage Conditions	
Confirmation of proper storage environment to maintain resin quality.	
Storage Temperature (°C)	
Enter a number)
Relative Humidity (%)	
Enter a number)
Storage Container Type	
Original Packaging	
Resealable Drum	
Dedicated Storage Bin	
Date Resin Received	
Enter date)

Comments on Storage Conditions	
Write something	
Sunlight Exposure	
Protected	
Limited	
Direct	
Non-Conformance Reporting Procedure for identifying, documenting, and resolving	any deviations from specifications
Description of Non-Conformance	
Write something	
	<u> </u>
Quantity Affected (Units)	
Enter a number	
Severity Level	
Minor	
Moderate	
Major Major	
☐ Critical	

Enter date	
Time of Non-Conf	ormance Identified
Root Cause Deter	mination Status
Not Started	
In Progress	
Completed	
Root Cause Analy	rsis Notes (if applicable)
Write something	
Supporting Docur	mentation (Photos, CoA Discrepancies)
♣ Upload File	
orrective A	action Verification
surina implemente	d corrective actions are effective and prevent recurrence.

Enter date...

Enter a number	
Detailed Description of Corrective Action Taken	
Write something	
Root Cause Analysis Completed?	
Yes	
No	
Pending	
C	
Summary of Root Cause Findings	
Summary of Root Cause Findings Write something	
Write something	
Write something Effectiveness of Corrective Action?	
Write something Effectiveness of Corrective Action? □ Fully Effective	
Write something Effectiveness of Corrective Action? Fully Effective Partially Effective Not Effective	
Write something Effectiveness of Corrective Action? Fully Effective Partially Effective	
Write something Effectiveness of Corrective Action? Fully Effective Partially Effective Not Effective	

Follow-Up Review Date		
Enter date		