

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	
resili Giude	
Molocular Maight (Avg)	
Molecular Weight (Avg)	
Enter a number	
Density (g/cm³)	
Enter a number	

Write something	
Specification Sheet	
♣ Upload File	
Opioad Tile	
Filler Type (if applicable)	
None Calcium Carbonato	
Calcium Carbonate Talc	
Clay	
ertificate of Analysis (CoA) Review	
ertificate of Analysis (CoA) Review sessment of CoA data, including properties and testing results. Lot Number	
sessment of CoA data, including properties and testing results.	
sessment of CoA data, including properties and testing results. Lot Number	
Lot Number Enter a number	
Sessment of CoA data, including properties and testing results. Lot Number Enter a number Molecular Weight (Avg)	
Sessment of CoA data, including properties and testing results. Lot Number Enter a number Molecular Weight (Avg)	
Lot Number Enter a number	

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-M	S) Report
	S) Report
Test Method Used (e.g., ASTM, ISO) ASTM	S) Report
Test Method Used (e.g., ASTM, ISO) ASTM ISO	S) 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	
Color Sample Photo (for reference)	
♣ 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)
□ Upload File □ U

Supplier Performance Rating
Excellent
Good
Average
□ Needs Improvement
Storage Conditions
Confirmation of proper storage environment to maintain resin quality.
Storage Temperature (°C)
Enter a number
Litter a number
Relative Humidity (%)
Enter a number
Enter a number
Storage Container Type
Original Packaging
Resealable Drum
Dedicated Storage Bin
Date Resin Received
Enter date
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 sp	pecifications
Description of Non-Conformance	
Write something	
Quantity Affected (Units)	
Enter a number	
Severity Level	
Minor	
☐ Moderate	
☐ Major	
Critical	

Enter date	
Time of Non-C	conformance Identified
Root Cause D	etermination Status
Not Started	
In Progress	
Completed	
Root Cause A	nalysis Notes (if applicable)
Write somethin	g
Supporting Do	ocumentation (Photos, CoA Discrepancies)
4 Upload File	
<u>.</u> -	A
orrective	Action Verification
suring impleme	ented corrective actions are effective and prevent recurrence.

Enter date...

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

Follow-Up Review Date		
Enter date		