

Certificate of Analysis (COA)**Product Name:** Polyethylene Terephthalate (PET) Resin**Issue Date:** January 12, 2025 **Grade:** YS-Y01 **CAS No.:** 25038-59-9**Manufacture Date:** January 10, 2025 **Expiry Date:** January 10, 2027

Test Items	Specification	Result
Intrinsic Viscosity (dl/g)	0.830 ± 0.015	0.834
Acetaldehyde Content ($\mu\text{g/g}$)	≤ 1.0	0.61
Color (L)	≥ 82	84.5
Color (b)	≤ 0.0	-1.2
Diglycol (%wt)	1.3 ± 0.2	1.21
Carboxyl End Group (mmol/kg)	≤ 35	25
Peak Melting Point ($^{\circ}\text{C}$, DSC)	247-251	249.2
Powder Content (mg/kg)	≤ 50	35
Water Content (%)	≤ 0.2	0.06
Density (g/cm^3)	1.38-1.40	1.397
Ash Content (%wt)	≤ 0.05	0.02
Bulk Density (g/cm^3)	0.80-0.90	0.87
Thermal Stability (minutes)	≥ 30	34
Heavy Metals (as Pb) (ppm)	≤ 5	2
Chlorine Content (ppm)	≤ 50	23
UV Transparency (at 320 nm)	$\geq 90\%$	92.1%

Inspector: 张志强**Approver:** 王芳