



PET (Bottle Grade) Resin Specification

NO	ITEM		UNIT	YS-W01 Water Grade	YS-H01 Hot Fill Grade	YS-Y01 Oil Grade	YS-C01 CSD Grade	YS-C02 Fast Reheat Grade
1	Intrinsic Viscosity		dl/g	0.800 ± 0.015	0.780 ± 0.015	0.830 ± 0.015	0.875 ± 0.015	0.870 ± 0.015
2	Melting Point (DSC method)		° C	249 ± 2.0	253 ± 2.0	248 ± 2.0	249 ± 2.0	246 ± 2.0
3	Carboxyl End Group		mmol/kg	≤35				
4	Moisture Content		% wt	≤0.4				
5	Color	b-value	---	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
		L-value	---	≥82	≥82	≥82	≥82	≥82
6	Diglycol		% wt	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2
7	Acetaldehyde Content		μg	≤10				
8	Powder		mg/kg	≤100				
9	Density		g/cm³	1.39 ± 0.01				
10	Ash Content		% wt	≤0.08				
11	Granule Weight		100/g	1.55 ± 0.10				

PET YS-Y01 Physical property table

PET Resin Granule	Test Method	Value	Unit
Basic Properties			
Density	ISO 1183	1400	kg/m³
Molding Shrinkage		0.2-0.8	%
inherent viscosity	IV	0.87 ± 0.015	dl/g
Acetaldehyde content		<1	ppm
melting point		246±2	°C
water content		≤0.2	%