LOTTE CHEMICAL	Physical Properties	Date	2021.05.25
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LOTTE CHEMICAL PET BIO

PET COPOLYMER

General Information

Description

▪ LOTTE CHEMICAL PET BIO is polyester resin produced from biomass-derived monomer.
- 30% Bio contents (30% Bio-MEG, 70% petroleum-based PTA)
- 28% CO_2 reduction compared to petroleum-based PET
  → Petroleum-based PET's CO_2 emission is 2.37kg CO_2/kg
  → LOTTE CHEMICAL PET BIO's CO_2 emission is 1.696kg CO_2/kg
- Shows excellent mechanical properties and heat resistance.

Applications

◆Carbonated beverage bottles, fresh water bottles

Physical Properties[1]

General Properties	Test Method	Nominal Values	
Intrinsic Viscosity	ASTM D4603	0.80	dl/g
Color L	ASTM D6290	80 Min	-
Color b	ASTM D6290	1.0 Max	-
Carboxyl End Group	LC METHOD	30.0 Max	eq/ton
Diethylene Glycol	LC METHOD	1.5 Max	wt%
Melting Point	ASTM D3418	248±3	℃
Chip Size	LC METHOD	-	g/100ea
		69±3	ea/g
Acetaldehyde	LC METHOD	1.0 Max	wtppm
H_2O	LC METHOD	1,000 Max	wtppm
Density	ASTM D1505	1.40±0.01	g/cm^3

Note

ISO 9001, 14001, /TS 16949

[1] Physical Properties : these are not to be construed as specifications