

	<u>Physical Properties</u>	Date	2021.05.25
		Lotte Chemical Corporation 14F-16F, Lotte World Tower, 300 Olympic-ro, Songpa-gu, Seoul (05551), KOREA TEL) 82-2-829-4114	

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% CO₂ reduction compared to petroleum-based PET
 - Petroleum-based PET's CO₂ emission is 2.37kg CO₂/kg
 - LOTTE CHEMICAL PET BIO's CO₂ emission is 1.696kg CO₂/kg
- Shows excellent mechanical properties and heat resistance.

Applications

- ♦ Carbonated beverage bottles, fresh water bottles

Physical Properties¹

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	°C
Chip Size	LC METHOD	-	g/100ea
		69±3	ea/g
Acetaldehyde	LC METHOD	1.0 Max	wtppm
H ₂ O	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