

PAPET BIO

Polyethylene Terephthalate

Lotte Chemical Corporation

Message:

PAPETBIO is biomass derived Polyester resin.

30% Bio contents (30% Bio-MEG, 70% petro-based PTA)

20% CO₂ reductions comparing to petro-based PET (Petro-based PET's CO₂ emission is 2.37kg CO₂ /kg PAPETBIO's CO₂ reduction is 0.474kg/kg)

Shows excellent mechanical properties and heat resistance.

General Information			
Features	Copolymer		
	High Heat Resistance		
	Renewable Resource Content		
Uses	Bottles		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Density	1.39 to 1.41	g/cm ³	ASTM D1505
Acetaldehyde	< 1.0	ppm	WI-QS-S07
Color b	< 1.00		ASTM D6290
Color L	> 80.0		ASTM D6290
Intrinsic Viscosity	0.78 to 0.82	dl/g	ASTM D4603
Water Content	< 1000	ppm	Internal Method
Diethylene Glycol	< 1.5	wt%	Internal Method
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	245 to 251	°C	ASTM D3418

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