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SHAHID TONGGOOIAN PETROCHEMICAL COMPANY

POLYETHYLENE TEREPHTHALATE (COPOLYMER) | PET-BG781

This high-viscosity Polyethylene Terephthalate (PET) bottle-grade resin is a premium condensation polymer manufactured via continuous melt-phase and solid-state polymerization (SSP) to reach a specialized I.V. range of 0.75–0.85 dL/g. Engineered for high-performance packaging, it features exceptional optical clarity, high gloss, and superior mechanical toughness with high impact resistance. Its advanced barrier properties effectively minimize oxygen and carbon dioxide permeation, making it an ideal solution for the precision molding of mineral water bottles, edible oil containers, and high-clarity small jars.

Producer	Applications
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Mineral Water , Edible Oil , Small Jars

Typical Properties			
Resin Properties	Unit	Typical Value	Test Method
Intrinsic Viscosity	dl/g	0.78 ± 0.02	ISO 1628-5
DEG	wt%	≤1.5	ASTM E2409-4
Color (CIE Lab)	L*	≥90	ASTM D6290-5
Color (CIE Lab)	b*	≤2.0	ASTM D6290-5
Carboxyl End Group	meq / Kg	≤32	ASTM D7409-7
Melting Point	C°	249±3	ASTM D3418-3
Acetaldehyde	ppm	≤1.0	ASTM F2013-5
Water Content	wt%	≤0.3	ASTM D6869-3