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## SHAHID TONGGOOIAN PETROCHEMICAL COMPANY

### POLYETHYLENE TEREPHTHALATE (COPOLYMER) | PET-BG825

Polyethylene Terephthalate PET-BG825 is a premium-grade resin engineered for high-performance packaging solutions requiring superior aesthetic and protective qualities. This grade is characterized by its exceptional transparency, high gloss, and outstanding impact strength, ensuring both durability and visual appeal for the end product. With its advanced barrier properties against oxygen and carbon dioxide, it is highly effective for preserving the integrity of mineral water, edible oils, and small jars, as well as meeting the specialized safety and stability requirements for pharmaceutical packaging applications.

Producer	Applications
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mineral water bottles, edible oil containers, and various small jars

Typical Properties			
Resin Properties	Unit	Typical Value	Test Method
Intrinsic Viscosity	dl/g	0.82± 0.02	ISO 1628-5
DEG	wt%	Max 2.0	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