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SHAHID TONGGOOIAN PETROCHEMICAL COMPANY

POLYETHYLENE TEREPHTHALATE (COPOLYMER) | PET-BG821

PET-BG821, produced by Shahid Tondgoyan Petrochemical Company (PGPICC), is a high-viscosity polyethylene terephthalate resin engineered for superior performance in demanding packaging applications. This grade is distinguished by its exceptional optical clarity and gloss, paired with outstanding mechanical toughness and impact resistance to ensure container integrity. Its advanced barrier technology provides a robust defense against oxygen and carbon dioxide permeation, making it an ideal choice for carbonated soft drinks (CSD), pharmaceuticals, wide-mouth jars, and high-tensile strapping applications.

Producer	Applications
SHAHID TONGGOOIAN PETROCHEMICAL COMPANY	carbonated soft drinks (CSD), pharmaceuticals, wide-mouth jars, and high-tensile strapping applications.

Typical Properties			
Resin Properties	Unit	Typical Value	Test Method
Intrinsic Viscosity	dl/g	0.82 ± 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	Max 32	ASTM D7409-7
Melting Point	C°	249±3	ASTM D3418-3
Acetaldehyde	ppm	Max 1.0	ASTM F2013-5
Water Content	wt%	Max 0.3	ASTM D6869-3