

Petrothene® GA502119

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

The Petrothene GA502 series of resins are pelletized linear low density polyethylenes for applications requiring excellent drawdown and toughness. These pelletized products offer excellent additive homogeneity, require no transfer equipment modification and facilitate clean and safe storage and handling. They can be used in either blown or cast film extrusion. GA502024 is formulated with higher antioxidant levels for use in cast film.

General Information			
Features	Good stripping		
	Good toughness		
	Compliance of Food Exposure		
Uses	Blown Film		
	Films		
	cast film		
Agency Ratings	FDA 21 CFR 175.1520		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D638
1% secant, MD: 38 µm	221	MPa	ASTM D638
1% secant, TD: 38 µm	248	MPa	ASTM D638
Tensile Strength			ASTM D882
MD: Fracture, 38 µm	33.8	MPa	ASTM D882
TD: Fracture, 38 µm	24.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm	750	%	ASTM D882
TD: Fracture, 38 µm	800	%	ASTM D882
Dart Drop Impact (38 µm)	120	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	170	g	ASTM D1922
TD : 38 µm	400	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method

Gardner Gloss (45°, 38.1 μm)	60		ASTM D523
Haze (38.1 μm)	12	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	191 - 218	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

