

# Petrothene® GA502024

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			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Drawdown		
	Good Toughness		
Uses	Cast Film		
	Film		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blown Film		
	Cast Film		
	Film Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm <sup>3</sup>	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
Film Thickness - Tested	38	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 38 µm	221	MPa	
1% Secant, TD : 38 µm	248	MPa	ASTM D882
Tensile Strength			
MD : Break, 38 µm	33.8	MPa	
TD : Break, 38 µm	24.8	MPa	ASTM D882
Tensile Elongation			
MD : Break, 38 µm	750	%	
TD : Break, 38 µm	800	%	ASTM D1709A
Dart Drop Impact (38 µm, Blown Film)	120	g	
Elmendorf Tear Strength			ASTM D1922

MD : 38 μm	170	g	
TD : 38 μm	400	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.1 μm, Blown Film)	60		ASTM D2457
Haze (38.1 μm, Blown Film)	12	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	191 to 218	°C	

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#### Recommended distributors for this material

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