

# Petrothene® M2512

Low Density Polyethylene

LyondellBasell Industries

## Message:

PETROTHENE M 2512 is a film grade resin that exhibits good optics, good impact strength and good tensile properties and stiffness. This resin is typically used for general-purpose packaging.

General Information			
Features	Food Contact Acceptable Good Impact Resistance Good Stiffness Opticals		
Uses	Film Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 25 µm	221	MPa	
1% Secant, TD : 25 µm	262	MPa	
Tensile Strength			ASTM D882
MD : Break, 25 µm	23.1	MPa	
TD : Break, 25 µm	19.3	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 µm	330	%	
TD : Break, 25 µm	500	%	
Dart Drop Impact (25 µm)	85	g	ASTM D1709
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 25.4 µm)	100		ASTM D2457
Haze (25.4 µm)	7.5	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	182	°C	

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### Recommended distributors for this material

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