

Petrothene® M2612GU

Low Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE M 2612GU is a film grade resin that exhibits good optics, good impact strength and good tensile properties and stiffness. M 2612GU contains medium levels of slip and antiblock. This resin is typically used for general-purpose packaging.

General Information			
Features	Good Impact Resistance		
	Good Stiffness		
	Opticals		
Uses	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm ³	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	32	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 32 µm	221	MPa	
1% Secant, TD : 32 µm	262	MPa	ASTM D882
Tensile Strength			
MD : Break, 32 µm	23.1	MPa	
TD : Break, 32 µm	19.3	MPa	ASTM D882
Tensile Elongation			
MD : Break, 32 µm	330	%	
TD : Break, 32 µm	500	%	ASTM D1709
Dart Drop Impact (32 µm)	90	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 µm)	65		ASTM D2457
Haze (31.8 µm)	7.8	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	182	°C	

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