

Petrothene® GA574000

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE GA 574-000 exhibits excellent flow and impact with good stiffness. Typical applications include lids, closures, containers, housewares and medical items.

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first.

General Information			
Features	Rigid, good		
	Impact resistance, good		
	Good liquidity		
	Compliance of Food Exposure		
Uses	Cover		
	Household goods		
	Container		
	Shell		
	Medical/nursing supplies		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield ¹	14.5	MPa	ASTM D638
Fracture	10.3	MPa	ASTM D638
Tensile Elongation ² (Yield)	8.2	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% secant	441	MPa	ASTM D790
2% secant	414	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	50.0	°C	ASTM D648
Brittleness Temperature	-76.0	°C	ASTM D746

Vicat Softening Temperature	96.0	°C	ASTM D1525
Additional Information			
Spiral Flow, Equistar Test Method, 0.625 in insert, 1000 psi injection pressure, 440°F melt temperature: 19.3 in			
Injection	Nominal Value	Unit	
Rear Temperature	177	°C	
Middle Temperature	191	°C	
Front Temperature	204	°C	
Nozzle Temperature	204	°C	
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	13 mm/min		

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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

