

Petrothene® GA594000

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE GA 594-000 is a pelletized LLDPE copolymer resin for injection molding lids and thin-walled items requiring high flow and short cycle times. GA 594-000 exhibits excellent flow, warp resistance and surface appearance.

General Information			
Features	Copolymer		
	Bending resistance		
	Fast molding cycle		
	High liquidity		
	Compliance of Food Exposure		
	Excellent appearance		
Uses	Thin wall parts		
	Cover		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.933	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	140	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	17.3	MPa	ASTM D638
Fracture	17.3	MPa	ASTM D638
Tensile Elongation ² (Yield)	9.8	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% secant	669	MPa	ASTM D790
2% secant	572	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	52.0	°C	ASTM D648
Brittleness Temperature	-27.0	°C	ASTM D746
Vicat Softening Temperature	91.0	°C	ASTM D1525
Additional Information			

Spiral Flow, Equistar Test Method, 0.625 in insert, 1000 psi injection pressure, 440°F melt temperature: 26.7 in

Injection	Nominal Value	Unit
Rear Temperature	177	°C
Middle Temperature	191	°C
Front Temperature	204	°C
Nozzle Temperature	204	°C

NOTE

1. 51 mm/min
2. 51 mm/min
3. 13 mm/min

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