

Petrothene® GA584000

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE GA 584-000 exhibits exceptional flow for high speed molding of lids, while providing good ESCR and tear resistance.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Good liquidity		
	Good tear strength		
	Compliance of Food Exposure		
Uses	Cover		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.929	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	110	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield ¹	16.2	MPa	ASTM D638
Fracture	12.4	MPa	ASTM D638
Tensile Elongation ² (Yield)	9.3	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% secant	524	MPa	ASTM D790
2% secant	483	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	50.0	°C	ASTM D648
Brittleness Temperature	-60.0	°C	ASTM D746
Vicat Softening Temperature	86.0	°C	ASTM D1525
Additional Information			
Spiral Flow, Equistar Test Method, 0.625 in insert, 1000 psi injection pressure, 440°F melt temperature: 25.6 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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