

# Petrothene® GA568000

Linear Low Density Polyethylene

LyondellBasell Industries

## Message:

PETROTHENE GA 568-000 exhibits an excellent balance of processability, stiffness, impact strength and ESCR. Typical applications include housewares, trash cans, medical items and closures.

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 High ESCR (Stress Cracking Resistance) Impact resistance, good Workability, good Compliance of Food Exposure		
Uses	Household goods Shell Medical/nursing supplies		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	33	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield <sup>1</sup>	13.4	MPa	ASTM D638
Fracture	9.31	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	8.5	%	ASTM D638
Flexural Modulus <sup>3</sup>			ASTM D790
1% secant	407	MPa	ASTM D790
2% secant	365	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	48.0	°C	ASTM D648
Brittleness Temperature	-76.0	°C	ASTM D746
Vicat Softening Temperature	87.0	°C	ASTM D1525

#### Additional Information

Spiral Flow, Equistar Test Method, 0.625 in insert, 1000 psi injection pressure, 440°F melt temperature: 15.7 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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