

Petrothene® GA568200

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene GA568200 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 175.1520		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	33	g/10 min	ASTM D1238
Spiral Flow	40.1	cm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	14.5	MPa	ASTM D638
Fracture	8.27	MPa	ASTM D638
Tensile Elongation ² (Yield)	12	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% secant	455	MPa	ASTM D790
2% secant	393	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	46.1	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	86.7	°C	ASTM D1525

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

NOTE

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|----|------------|
| 1. | 510 mm/min |
| 2. | 510 mm/min |
| 3. | 13 mm/min |

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