

Petrothene® GA574189

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE GA574189 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	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	High Flow		
Uses	Closures		
	Containers		
	Household Goods		
	Lids		
	Medical/Healthcare Applications		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
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
Spiral Flow	45.5	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	15.2	MPa	
Break	8.96	MPa	
Tensile Elongation ² (Yield)	11	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% Secant	483	MPa	
2% Secant	421	MPa	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	47.2	°C	ASTM D648

Brittleness Temperature	-72.2	°C	ASTM D746
Vicat Softening Temperature	84.4	°C	ASTM D1525
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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