

Petrothene® GA564189

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE GA564189 exhibits good stiffness and low temperature toughness. Typical applications include trash cans, industrial containers, housewares and toys.

General Information			
Features	Good Stiffness		
	Low Temperature Toughness		
Uses	Containers		
	Household Goods		
	Industrial Applications		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Spiral Flow	32.1	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	14.0	MPa	
Break	8.00	MPa	
Tensile Elongation ² (Yield)	12	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% Secant	440	MPa	
2% Secant	380	MPa	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	45.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	91.1	°C	ASTM D1525
Injection	Nominal Value	Unit	
Rear Temperature	177	°C	

Middle Temperature	190	°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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