

Petrothene® GA594189

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene GA594189 is a pelletized LLDPE copolymer resin for injection molding thin-walled items requiring high flow and short cycle times. GA594189 exhibits excellent flow, warp resistance and surface appearance.

General Information			
Features	Fast Molding Cycle		
	Good Surface Finish		
	High Flow		
	Warp Resistant		
Uses	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.933	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	140	g/10 min	ASTM D1238
Spiral Flow	67.1	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	16.5	MPa	
Break	13.8	MPa	
Tensile Elongation ² (Yield)	10	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% Secant	627	MPa	
2% Secant	545	MPa	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	51.1	°C	ASTM D648
Brittleness Temperature	-55.6	°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

1.	51 mm/min
2.	51 mm/min
3.	13 mm/min

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