

Petrothene® GA584189

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene GA584189 exhibits exceptional flow for high speed molding of lids, while providing good ESCR and tear resistance.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Tear Strength		
	High ESCR (Stress Crack Resist.)		
	High Flow		
Uses	Lids		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.929	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	110	g/10 min	ASTM D1238
Spiral Flow	61.7	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	11.7	MPa	
Tensile Elongation ² (Yield)	11	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% Secant	552	MPa	
2% Secant	476	MPa	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	51.1	°C	ASTM D648
Brittleness Temperature	-58.3	°C	ASTM D746
Vicat Softening Temperature	83.3	°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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