Petrothene® GA578189

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene GA578189 is a pelletized LLDPE resin for injection molding applications such as lids, caps and closures, containers and other items needing rigidity and good appearance. GA578189 can be used in operations requiring fast cycle times, as well.

General Information			
Features	Rigid, good		
	Fast molding cycle		
	Compliance of Food Exposure		
Uses	Shield		
	Container		
	Shell		
Agency Ratings	FDA 21 CFR 175.1520		
Forms	Particle		
Processing Method	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density	0.928	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	85	g/10 min	ASTM D1238
Spiral Flow	55.9	cm	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	54		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1]			ASTM D638
Yield	16.5	MPa	ASTM D638
Fracture	12.4	MPa	ASTM D638
Tensile Elongation [2] (Yield)	10	%	ASTM D638
Flexural Modulus [3]			ASTM D790
1% secant	552	MPa	ASTM D790
2% secant	483	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	49.4	°C	ASTM D648
Brittleness Temperature	-59.4	°C	ASTM D746
Vicat Softening Temperature	85.0	°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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.