Petrothene® GA694000X01

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE GA 694-000X01 is a pelletized LLDPE copolymer resin for injection molding. Typical applications include lids and thin-walled items that require high flow and short cycle times. GA 684-000X01 exhibits excellent flow, warp resistance and surface appearance.

General Information			
Features	Copolymer Bending resistance Fast molding cycle High liquidity Compliance of Food Exposure Excellent appearance		
Uses	Thin wall parts Cover		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.933	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	140	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Break)	20.0	MPa	ASTM D638
Flexural Modulus [2]			ASTM D790
1% secant	689	MPa	ASTM D790
2% secant	593	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	56.0	°C	ASTM D648
Vicat Softening Temperature	94.0	°C	ASTM D1525
Additional Information			
Spiral Flow, Equistar Test Method, 0.625 in insert, 1000 psi injection pressure, 440°F melt temperature: 26.7 in			
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.	13 mm/min

Recommended distributors for this material

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