

Technical Data Sheet

Petrothene GA684192

Linear Low Density Polyethylene

Product Description

Petrothene GA684192 is a pelletized LLDPE copolymer resin selected by customers for injection molding. Typical applications include lids and thin-walled items that require high flow and short cycle times. GA684192 exhibits excellent flow, warp resistance and surface appearance.

Application	Lids
Market	Rigid Packaging
Processing Method	Injection Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	100	g/10 min	100	g/10 min	ASTM D1238
Density, (23 °C)	0.929	g/cm ³	0.929	g/cm ³	ASTM D1505
Spiral Flow	23.2	in	59.0	cm	LYB Method
Mechanical					
Flexural Modulus, (0.05 in/min, 1% Secant, Procedure A)	94000	psi	650	MPa	ASTM D790
Tensile Strength at Yield, (2 in/min)	2700	psi	18	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	9	%	9	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	57		57		ASTM D2240
Thermal					
Vicat Softening Temperature, (A50)	200	°F	93	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	-22	°F	-30	°C	ASTM D746
Heat Deflection Temperature, (0.45 MPa)	120	°F	49	°C	ASTM D648