

Technical Data Sheet

Petrothene GA694189

Linear Low Density Polyethylene



Product Description

Petrothene GA694189 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. GA694189 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)	160	g/10 min	160	g/10 min	ASTM D1238
Density, (23 °C)	0.933	g/cm ³	0.933	g/cm ³	ASTM D1505
Spiral Flow	29.0	in	73.0	cm	LYB Method
Mechanical					
Flexural Modulus					
(1% Secant)	94000	psi	650	MPa	ASTM D790
(2% Secant)	83000	psi	570	MPa	ASTM D790
Tensile Strength at Break, (23 °C)	2300	psi	16	MPa	ASTM D638
Tensile Strength at Yield, (23 °C)	2500	psi	17	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	10	%	10	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	62		62		ASTM D2240
Thermal					
Vicat Softening Temperature	198	°F	92	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	19	°F	-7	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	127	°F	53	°C	ASTM D648

