

## Technical Data Sheet

**Petrothene GA574189**

Linear Low Density Polyethylene

**Product Description**

*Petrothene* GA574189 exhibits excellent flow and impact with good stiffness. Typical applications include lids, closures, containers, housewares and medical items.

<b>Application</b>	Caps & Closures; Containers; Housewares; Lids; Outdoor and Power Tools
<b>Market</b>	Rigid Packaging
<b>Processing Method</b>	Injection Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	50	g/10 min	50	g/10 min	ASTM D1238
Density, (23 °C)	0.926	g/cm <sup>3</sup>	0.926	g/cm <sup>3</sup>	ASTM D1505
Spiral Flow	17.9	in	45.4	cm	LYB Method
<b>Mechanical</b>					
Flexural Modulus					
(1% Secant)	70000	psi	480	MPa	ASTM D790
(2% Secant)	61000	psi	420	MPa	ASTM D790
Tensile Strength at Break, (23 °C)	1300	psi	9	MPa	ASTM D638
Tensile Strength at Yield, (23 °C)	2200	psi	15	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	11	%	11	%	ASTM D638
<b>Hardness</b>					
Shore Hardness, (Shore D)	60		60		ASTM D2240
<b>Thermal</b>					
Vicat Softening Temperature	184	°F	84	°C	ASTM D1525
Low Temperature Brittleness, F <sub>50</sub>	-98	°F	-72	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	117	°F	47	°C	ASTM D648