

## Technical Data Sheet

### *Petrothene* GA564189



Linear Low Density Polyethylene

#### Product Description

*Petrothene* GA564189 exhibits good stiffness and low temperature toughness. Typical applications include trash cans, industrial containers, housewares and toys.

<b>Application</b>	Housewares; Outdoor and Power Tools; Sports, Leisure & Toys; Trash Cans; Wire & Cable
<b>Market</b>	Compounding; Rigid Packaging; Wire & Cable
<b>Processing Method</b>	Compounding; Injection Molding; Wire & Cable

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	20	g/10 min	20	g/10 min	ASTM D1238
Density, (23 °C)	0.924	g/cm <sup>3</sup>	0.924	g/cm <sup>3</sup>	ASTM D1505
Spiral Flow	12.6	in	32.1	cm	LYB Method
<b>Mechanical</b>					
Flexural Modulus					
(1% Secant)	63000	psi	440	MPa	ASTM D790
(2% Secant)	55000	psi	380	MPa	ASTM D790
Tensile Strength at Break, (23 °C)	1200	psi	8	MPa	ASTM D638
Tensile Strength at Yield, (23 °C)	2100	psi	14	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	12	%	12	%	ASTM D638
<b>Hardness</b>					
Shore Hardness, (Shore D)	57		57		ASTM D2240
<b>Thermal</b>					
Vicat Softening Temperature	196	°F	91	°C	ASTM D1525
Low Temperature Brittleness, F <sub>50</sub>	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	113	°F	45	°C	ASTM D648