

Technical Data Sheet

**Petrothene GA625189**



Linear Low Density Polyethylene

**Product Description**

*Petrothene* GA625189 is a hexene LLDPE pelletized injection molding resin selected for use in applications requiring a balance of processability, ESCR, and low temperature toughness.

<b>Application</b>	Caps & Closures
<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)	5.0	g/10 min	5.0	g/10 min	ASTM D1238
Density, (23 °C)	0.935	g/cm <sup>3</sup>	0.935	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Flexural Modulus					
(1% Secant)	105000	psi	725	MPa	ASTM D790
(2% Secant)	91000	psi	625	MPa	ASTM D790
Tensile Strength at Yield	2700	psi	18.6	MPa	ASTM D638
Environmental Stress Crack Resistance, F <sub>50</sub> (100% Igepal®, Cond A)	>1000	hr	>1000	hr	ASTM D1693
<b>Thermal</b>					
Deflection Temperature Under Load					
(66 psi, Unannealed)	131	°F	55	°C	ASTM D648
(264 psi, Unannealed)	102	°F	39	°C	ASTM D648