

Technical Data Sheet

Petrothene GA625962



Linear Low Density Polyethylene

Product Description

Petrothene GA625962 is a hexene LLDPE pelletized rotational molding resin with excellent flow properties selected by customers to produce a variety of objects such as toys, playground equipment, drums and agricultural and chemical storage containers. GA625962 exhibits high ESCR, low temperature impact strength and warp resistance. GA625962 is UV-stabilized and available in a 35-mesh powder as *Microthene* MP625962.

Application Containers; Drums; Sports, Leisure & Toys

Market Outdoor Equipment; Rigid Packaging

Processing Method Rotomolding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
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 ³	0.935	g/cm ³	ASTM D1505
Mechanical					
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 ₅₀ (100% Igepal®, Cond A)	>1000	hr	>1000	hr	ASTM D1693
Impact					
Low Temperature Impact					
1/8" specimen @ -40 °F	55	ft-lbs	75	J	ARM
1/4" specimen @ -40 °F	155	ft-lbs	210	J	ARM
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	131	°F	55	°C	ASTM D648
(264 psi, Unannealed)	102	°F	39	°C	ASTM D648