

# AMERICOLENE® AR50035E

**AMERICOLENE**

## Linear Low Density Polyethylene

### Product Description

AMERICOLENE® AR50035E 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. AR50035E exhibits high ESCR, low temperature impact strength and warp resistance. AR50035E is UV-stabilized and available in a 35-mesh powder as AMERICOLENE® AR50035E.

### Regulatory Status

For regulatory compliance information, see AMERICOLENE® AR50035E Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<b>Application</b>	Containers; Drums; Sports, Leisure & Toys
<b>Market</b>	Outdoor Equipment; Rigid Packaging
<b>Processing Method</b>	Rotomolding

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, F5o (100% Igepal®, Cond A)	>1000	hr	>1000	hr	ASTM D1693
<b>Impact</b>					
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

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