

# Petrothene® GA625962

Linear Low Density Polyethylene

LyondellBasell Industries

## Message:

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.

General Information			
Additive	UV stabilizer		
Features	High ESCR (Stress Cracking Resistance)		
	hexene comonomer		
	Bending resistance		
	Good liquidity		
	Low temperature impact resistance		
Uses	Drum		
	Agricultural application		
	Container		
	Toys		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50)	> 1000	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	18.6	MPa	ASTM D638
Flexural Modulus			ASTM D790
1% secant	724	MPa	ASTM D790
2% secant	627	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Low Temperature Impact			ARM
-40°C, 3.18 mm	54.2	J	ARM
-40°C, 6.35 mm	210	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	55.0	°C	ASTM D648
1.8 MPa, not annealed	39.0	°C	ASTM D648

## NOTE

1. 51 mm/min

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### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

