

Petrothene® GA635962

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene GA635962 is a high flow hexene LLDPE resin selected by customers for the rotational molding of large hollow objects, including toys, playground equipment, drums and agricultural and chemical storage containers. GA635962 exhibits high ESCR, low temperature impact strength and warp resistance. GA635962 is UV-stabilized and available in a 35-mesh powder as Microthene MP635962.

General Information			
Additive	UV stabilizer		
Features	High ESCR (Stress Cracking Resistance)		
	hexene comonomer		
	Bending resistance		
	High 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 ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.7	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 ¹ (Yield)	18.6	MPa	ASTM D638
Flexural Modulus			ASTM D790
1% secant	738	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	197	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	57.0	°C	ASTM D648
1.8 MPa, not annealed	39.0	°C	ASTM D648

NOTE

1. 51 mm/min

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