

Petrothene® GA643962

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene GA643962 is a linear medium density polyethylene selected by customers for rotomolding a variety of objects, including drums, agricultural and chemical storage containers, playground equipment and municipal trash containers. GA643962 is UV-stabilized and is also available in 35-mesh powder as Microthene MP643962.

General Information			
Additive	UV stabilizer		
Uses	Drum		
	Agricultural application		
	Container		
	Toys		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.6	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)	20.0	MPa	ASTM D638
Flexural Modulus			ASTM D790
1% secant	820	MPa	ASTM D790
2% secant	6900	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	217	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	58.0	°C	ASTM D648
1.8 MPa, not annealed	40.0	°C	ASTM D648
NOTE			
1.	51 mm/min		

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