

# Petrothene® GA652962

High Density Polyethylene

LyondellBasell Industries

## Message:

Petrothene GA652962 is a hexene HDPE resin selected by customers for rotationally molding large tank applications. GA652962 is UV-stabilized and is available in a 35 mesh powder as Microthene MP652962.

General Information			
Additive	UV stabilizer		
Features	hexene comonomer		
Uses	Water tank		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.942	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693A
10% Igepal CO-630, F50	50.0	hr	ASTM D1693A
100% Igepal CO-630, F50	400	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	0.0689	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	10	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant	1010	MPa	ASTM D790
2% secant	855	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	65.0	°C	ASTM D648
1.8 MPa, not annealed	43.0	°C	ASTM D648
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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