

# Microthene MP643962

## LyondellBasell Industries - Linear Low Density Polyethylene

### General Information

#### Product Description

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

#### General

Uses	<ul style="list-style-type: none"> <li>Containers</li> <li>Drums</li> </ul>	<ul style="list-style-type: none"> <li>Jerricans</li> <li>Rigid Packaging</li> </ul>	<ul style="list-style-type: none"> <li>Sporting Goods</li> <li>Toys</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Rotational Molding</li> </ul>		

### Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density (23°F)	0.940	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.6	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 100% Igepal, F50	> 1000	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2900	psi	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	119000	psi	
2% Secant	102000	psi	
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°F, 0.125 in	54	ft·lb	
-40°F, 0.250 in	160	ft·lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	136	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	104	°F	ASTM D648