

# Microthene® MP643962

Linear Medium Density Polyethylene

LyondellBasell Industries

## Message:

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 Information			
Additive	UV stabilizer		
Uses	Industrial container		
	Drum		
	Agricultural application		
	Container		
Forms	Powder		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	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 (100% Igepal CO-630, F50)	> 1000	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	20.0	MPa	ASTM D638
Flexural Modulus			ASTM D790
1% secant	820	MPa	ASTM D790
2% secant	696	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°C, 3.18 mm	54	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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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



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