

# Microthene® MP655962

High Density Polyethylene

LyondellBasell Industries

## Message:

Microthene MP655962 is a rotational molding powder that produces items with very smooth inner surface under a wide range of processing conditions. MP655962 is selected by customers to make a variety of rotomolded items including light globes, storage containers, traffic crash barriers, ducting and equipment housings. This resin exhibits high impact strength at both room temperature and -40°F. It has good warp resistance and stiffness. MP655962 is a UV-stabilized, 35-mesh powder and is also available in pellet form as Petrothene GA655962.

General Information			
Additive	UV Stabilizer		
Features	Good Impact Resistance		
	Good Stiffness		
	Low Temperature Impact Resistance		
	Warp Resistant		
Uses	Containers		
	Housings		
Forms	Powder		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal CO-630, F50)	30.0	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	22.8	MPa	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	993	MPa	
2% Secant	841	MPa	
Impact	Nominal Value	Unit	Test Method
ARM Impact			
-40°C, 3.18 mm	47.5	J	
-40°C, 6.35 mm	183	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	66.0	°C	
1.8 MPa, Unannealed	42.0	°C	
NOTE			
1.	51 mm/min		

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