

Microthene

# MP655962

High Density Polyethylene Powder

Rotational Molding Grade

Melt Index 5.0 Density 0.945



## Applications

*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.

## Processing Techniques

Specific recommendations for conditions under which MP655962 should be processed can be made only when the end use and type of processing equipment are known.

## Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	5.0	g/10 min	D1238
Density	0.945	g/cc	D1505
ESCR, Condition A, F <sub>50</sub>			
100% Igepal®, CO-630	30	hrs	D1693
Flexural Modulus, 1 % Secant	144,000	psi	D790
Flexural Modulus, 2 % Secant	122,000	psi	D790
Tensile Strength @ Yield <sup>1</sup>	3,300	psi	D638
Deflection Temperature at Load			
@ 66 psi	66	°C	D648
@ 264 psi	42	°C	D648
Low Temperature Impact (-40°F)			
1/8" specimen	35	ft-lbs	ARM*
1/4" specimen	135	ft-lbs	ARM*

<sup>1</sup> Crosshead speed – 2 in/ min

\* Association of Rotational Molders (ARM) International Test Protocol

® Igepal is a registered trademark of the Rhone-Poulenc Co., Inc.

Typical properties; not to be construed as specifications.