

Microthene®

# MP 658-662

High Density Polyethylene  
Rotational Molding Grade  
Melt Index 8.0 Density 0.948

## Applications

MICROTHENE MP 658-662 is a rotational molding powder that produces items with very smooth inner surface under a wide range of processing conditions. MP 658-662 can be used to make a variety of rotomolded items including light globes, storage containers, traffic crash barriers, ducting and equipment housings. This resin is also available in pellet form as PETROTHENE® GA 658-662.

## Processing Techniques

Specific recommendations for processing MP 658-662 can be made only when the required properties, processing equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

## Physical Properties

MP 658-662 exhibits excellent impact strength at both room temperature and -40°F. It also has good warp resistance and stiffness.

## Typical Properties

Property	Nominal Value	Units	ASTM Test Method	Sample
Melt Index (190/2.16)	8.0	g/10 min	D 1238	Pellets
Density	0.948	g/cm <sup>3</sup>	D 1505	Compression molded
ESCR, Condition A, F <sub>50</sub>				
100% Igepal®, CO-630	11	hrs	D 1963	Rotomolded*
10% Igepal®, CO-630	4.0	hrs	D 1693	Rotomolded*
Flexural Modulus, 1% Secant	147,000	psi	D 790	Rotomolded*
Tensile Strength @ Yield, 2"/min	3,250	psi	D 638	Rotomolded*
Heat Distortion Temperature @ 66 psi	72	°C	D 648	Rotomolded*
@ 264 psi	44	°C		
Low Temperature Impact, 1/8" specimen	40	ft-lbs	ARM STD	Rotomolded*
1/4" specimen	90		(-40°F impact)	Rotomolded*
Meets FDA Requirements	yes			
UV-stabilized	yes			
UL, NSF-Listed	yes			

\*Thickness of specimen is 1/8"

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