

Microthene®

MP 655-662

High Density Polyethylene
Rotational Molding Grade
Melt Index 5.0 Density 0.945

Applications

MICROTHENE MP 655-662 is a rotational molding powder that produces items with very smooth inner surface under a wide range of processing conditions. MP 655-662 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 655-662.

Processing Techniques

Specific recommendations for processing MP 655-662 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 655-662 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)	5.0	g/10 min	D 1238	Pellets
Density	0.945	g/cm ³	D 1505	Compression molded
ESCR, Condition A, F ₅₀				
100% Igepal®, CO-630	30	hrs	D 1963	Rotomolded*
10% Igepal®, CO-630	10	hrs	D 1693	Rotomolded*
Flexural Modulus, 1% Secant	135,000	psi	D 790	Rotomolded*
Tensile Strength @ Yield, 2"/min	3,000	psi	D 638	Rotomolded*
Heat Distortion Temperature @ 66 psi	66	°C	D 648	Rotomolded*
@ 264 psi	42	°C		
Low Temperature Impact, 1/8" specimen	40	ft-lbs	ARM STD	Rotomolded*
1/4" specimen	100		(-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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Equistar Chemicals, LP
1221 McKinney, Suite 700
P.O. Box 2583
Houston, Texas 77252-2583
(800) 615-8999
<http://www.equistarchem.com>



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