

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 ₅₀ 100% 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 ¹	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*

¹ Crosshead speed – 2 in/ min

* Association of Rotational Molders (ARM) International Test Protocol

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Typical properties; not to be construed as specifications.