

Microthene

MP652962

High Density Polyethylene Powder

Rotational Molding Grade

Melt Index 2.0 Density 0.942



Applications

Microthene MP652962 is a hexene HDPE powder selected by customers for rotationally molding large tank applications. MP652962 is a UV-stabilized, 35-mesh powder and is also available in pellet form as *Petrothene* GA652962.

Processing Techniques

Specific recommendations for conditions under which MP652962 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	2.0	g/10 min	D1238
Density	0.942	g/cc	D1505
ESCR, Condition A, F ₅₀			
100% Igepal®, CO-630	400	hrs	D1693
10% Igepal®, CO-630	50	hrs	D1693
Flexural Modulus, 1% Secant	147,000	psi	D790
Flexural Modulus, 2% Secant	124,000	psi	D790
Tensile Strength @ Yield ¹	3,400	psi	D638
Tensile Elongation @ Yield ¹	10	%	D638
Deflection Temperature at Load			
@ 66 psi	65	°C	D648
@ 264 psi	43	°C	D648
Low Temperature Impact (-40°F)			
1/8" specimen	40	ft-lbs	ARM*
1/4" specimen	160	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.