

Petrothene

GA652962

High Density Polyethylene

Rotational Molding Grade

Melt Index 2.0 Density 0.942



Applications

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

Processing Techniques

Specific recommendations for processing GA652962 can be made only when the required properties, processing equipment and end use 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.