

Microthene

MP652762

High Density Polyethylene Powder

Rotational Molding Grade

Melt Index 2.0 Density 0.942



Applications

Microthene MP652762 is a hexene HDPE powder used mainly for rotationally molding large tank applications. MP652662 is a UV 8-stabilized, 35-mesh powder and is also available in pellet form as *Petrothene* GA652762.

Regulatory Status

MP652762 meets the requirements of the Food and Drug Administration, 21CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information.

Processing Techniques

Specific recommendations for conditions under which MP652762 should be processed can be made only when the end use and type of processing equipment are known. For exact recommendations, please contact your Equistar sales representative.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method	Sample
Melt Index (190/2.16)	2.0	g/10 min	D 1238	Pellets
Density molded	0.942	g/cc	D 1505	Compression
Melting Point	129	°C	D 3418	Rotomolded**
ESCR, Condition A, F ₅₀				
100% Igepal®, CO-630	720	hrs	D 1693	Rotomolded**
10% Igepal®, CO-630	48	hrs	D 1693	Rotomolded**
Flexural Modulus, 1% Secant	130,000	psi	D 790	Rotomolded**
Tensile Strength @ Yield, 2"/min*	3,220	psi	D 638	Rotomolded**
Tensile Elongation @ Yield	18	%	D 638	Rotomolded**
Heat Distortion Temperature @ 66 psi	67	°C	D 648	Rotomolded**
@ 264 psi	42	°C		
Low Temperature Impact			ARM STD	
1/8" specimen	80	ft-lbs	-40°F impact	Rotomolded**
1/4" specimen	190	ft-lbs	-40°F impact	Rotomolded
Meets FDA Requirements	yes			
UV 8-stabilized	yes			

* Thickness of specimen 1/8".

** Type IV specimen.

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