

Microthene®

MP 652-762

High Density Polyethylene Powder
Rotational Molding Grade
Melt Index 2.0 Density 0.942

Applications

MICROTHENE MP 652-762 is a hexene, HDPE powder used mainly for rotationally molding large tank applications.

Certification

MP 652-762 meets the requirements of Food and Drug Administration regulation, 21 CFR 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 processing MP 652-762 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 652-662 is a UV-stabilized, 35-mesh powder and is also available in pellet form as PETROTHENE®GA 652-762.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method	Sample
Melt Index (190/2.16)	2.0	g/10 min	D 1238	Powder
Density	0.942	g/cm ³	D 1505	Compression molded
ESCR, Condition A, F ₅₀				
100% Igepal®, CO-630	>1000	hrs	D 1963	Rotomolded**
10% Igepal®, CO-630	43	hrs	D 1693	Rotomolded**
Flexural Modulus, 1% Secant	120,000	psi	D 790	Rotomolded**
Tensile Strength @ Yield, 2"/min*	3,220	psi	D 638	Rotomolded**
Heat Distortion Temperature @ 66 psi	56	°C	D 648	Rotomolded**
@ 264 psi	42	°C		
Low Temperature Impact			ARMSTD	
1/8" specimen	48	ft-lbs	-40°F impact	Rotomolded**
1/4" specimen	145	ft-lbs	-40°F impact	Rotomolded
Meets FDA Requirements	yes			
UV-stabilized	yes			

* Type IV Specimen

** 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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