

Technical Data Sheet

**Microthene MP672962**

High Density Polyethylene
LyondellBasell Industries
Engineering Plastics

Product Description

Microthene MP672962 is a hexene HDPE powder selected by customers for rotationally molding large tank applications. MP672962 is a UV-stabilized, 35-mesh powder and is also available in pellet form as Petrothene GA672962.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Additive	• UV Stabilizer		
Uses	• Tanks		
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.944 g/cm ³	0.944 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.7 g/10 min	1.7 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 10% Igepal CO-630, F50	600 hr	600 hr	ASTM D1693A
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	3300 psi	22.8 MPa	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	142000 psi	979 MPa	
2% Secant	120000 psi	827 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	
ARM Impact			
-40°F (-40°C), 0.13 in (3.18 mm)	35.0 ft-lb	47.5 J	
-40°F (-40°C), 0.25 in (6.35 mm)	155 ft-lb	210 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	149 °F	65.0 °C	
264 psi (1.8 MPa), Unannealed	109 °F	43.0 °C	

Notes

¹ 2.0 in/min (51 mm/min)

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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