

Microthene® MP652962

High Density Polyethylene

LyondellBasell Industries

Message:

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.

General Information			
Additive	UV stabilizer		
Features	hexene comonomer		
Uses	Water tank		
Forms	Powder		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.942	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693A
10% Igepal CO-630, F50	50.0	hr	ASTM D1693A
100% Igepal CO-630, F50	400	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	23.4	MPa	ASTM D638
Tensile Elongation ² (Yield)	10	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant	1010	MPa	ASTM D790
2% secant	855	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°C, 3.18 mm	54	J	ARM
-40°C, 6.35 mm	217	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	65.0	°C	ASTM D648
1.8 MPa, not annealed	43.0	°C	ASTM D648
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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