

Microthene® MP635662

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

MICROTHENE MP 635-662 is a high flow hexene LLDPE powder for the rotational molding of large hollow objects, including toys, playground equipment, drums and agricultural and chemical storage containers.

MP 635-662 exhibits excellent ESCR, low temperature impact strength and warp resistance. MP 635-662 is a UV-stabilized, 35-mesh powder and is also available in pellet form as PETROTHENE® GA 635-662.

General Information			
Additive	UV Stabilizer		
Features	Food Contact Acceptable		
	Good UV Resistance		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Flow		
	Low Temperature Impact Resistance		
	Warp Resistant		
Uses	Containers		
	Drums		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Powder		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.7	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693A
10% Igepal, Rotational Molded, F50	92.0	hr	
100% Igepal, Rotational Molded, F50	< 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.18 mm, Rotational Molded)	17.2	MPa	ASTM D638
Flexural Modulus - 1% Secant (3.18 mm, Rotational Molded)	601	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Low Temperature Impact ²			ARM
-40°C, 3.18 mm	61.0	J	
-40°C, 6.35 mm	150		

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, Rotational Molded	50.0	°C	
1.8 MPa, Unannealed, Rotational Molded	35.0	°C	
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, Rotomolded		

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