

Microthene MP635060

LyondellBasell Industries - Linear Low Density Polyethylene

General Information

Product Description

Microthene MP635060 is a high flow hexene LLDPE powder selected by customers for the rotational molding of large hollow objects, including toys, playground equipment, drums and agricultural and chemical storage containers. MP635060 exhibits high ESCR, low temperature impact strength and warp resistance. MP635060 is a 35-mesh powder with UV20+ UV resistance and is also available in pellet form as Petrothene GA635060.

General

Uses	<ul style="list-style-type: none"> Containers Drums 	<ul style="list-style-type: none"> Rigid Packaging Sporting Goods 	<ul style="list-style-type: none"> Toys
Processing Method	<ul style="list-style-type: none"> Rotational Molding 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (23°F)	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 (ESCR) 100% Igepal, F50	> 1000	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2700	psi	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	107000	psi	
2% Secant	90600	psi	
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°F, 0.125 in	51	ft·lb	
-40°F, 0.250 in	145	ft·lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	135	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	102	°F	ASTM D648