

Alathon® M6062

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON M 6062 is a narrow molecular weight distribution homopolymer that exhibits excellent stiffness and impact resistance. Typical applications include cases, totes, crates and open-head pails.

General Information			
Features	Rigid, good		
	Homopolymer		
	Impact resistance, good		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
Uses	Barrel		
	Loading box		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.959	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield ¹	30.2	MPa	ASTM D638
Fracture	24.1	MPa	ASTM D638
Tensile Elongation ² (Yield)	7.9	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% secant	1410	MPa	ASTM D790
2% secant	1150	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	68.9	°C	ASTM D648
Brittleness Temperature	-76.1	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525
Additional Information			
Spiral Flow, Equistar Test Method, 0.625 in insert, 1000 psi injection pressure, 440°F melt temperature: 8.2 in			

Injection	Nominal Value	Unit
Rear Temperature	232	°C
Middle Temperature	243	°C
Front Temperature	246	°C
Nozzle Temperature	246	°C

NOTE

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|----|-----------|
| 1. | 51 mm/min |
| 2. | 51 mm/min |
| 3. | 13 mm/min |

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