

Alathon® M5370P

High Density Polyethylene
LyondellBasell Industries

Message:

Alathon M5370P is a copolymer with a narrow molecular weight distribution. This resin provides high impact strength, excellent color, low odor and good processing stability. Typical applications include open head pails, large shipping containers and all-terrain vehicle components.

General Information			
Features	Impact resistance, high		
	Good processing stability		
	The smell is low to none		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
Uses	Container		
	Barrel		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Apparent Density	0.53 - 0.59	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.3	g/10 min	ASTM D1238
Spiral Flow	22.6	cm	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹			ASTM D638
--	1040	MPa	ASTM D638
1% secant	823	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	28.5	MPa	ASTM D638
Fracture	20.6	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	9.0	%	ASTM D638
Fracture	1200	%	ASTM D638
Flexural Modulus ⁴			ASTM D790
--	1410	MPa	ASTM D790
1% secant	1300	MPa	ASTM D790
2% secant	1090	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	39	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.2	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525
Peak Melting Temperature	130	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	117	°C	ASTM D3418
Injection	Nominal Value	Unit	
Rear Temperature	232	°C	
Middle Temperature	243	°C	
Front Temperature	246	°C	
Nozzle Temperature	246	°C	
NOTE			
1.	Type 1, 50mm/min		
2.	Type 4, 50mm/min		
3.	Type 4, 50mm/min		
4.	13 mm/min		

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