

Alathon® M5370PX

High Density Polyethylene Copolymer
LyondellBasell Industries

Message:

Alathon M5370PX is a copolymer with a narrow molecular weight distribution. This resin provides high impact strength and stress crack resistance, excellent color, low odor and good processability. Typical applications include pipe and profile extrusion.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Low to No Odor		
	Narrow Molecular Weight Distribution		
Uses	Piping		
	Profiles		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Extrusion		
	Pipe Extrusion		
	Profile Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.8	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	28.3	MPa	
Break	22.4	MPa	
Tensile Elongation ² (Yield)	7.3	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% Secant	1250	MPa	
2% Secant	1040	MPa	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.2	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525

NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	13 mm/min		

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