Alathon

M5370PX

High Denisty Polyethylene
Extrusion Grade
Melt Index 6.8 Density 0.953

Applications

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.

Regulatory Status

M5370PX meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar sales or technical service representative for more information.

Processing Techniques

Specific recommendations for processing M5370PX can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Typical Properties

Property	Value	Units	Test Method
Melt Index	6.8	g/10 min	ASTM D 1238
Density	0.953	g/cc	ASTM D 1505
Tensile Stress @ Break	3,250 (22)	psi (MPa)	ASTM D 638
Tensile Stress @ Yield[1]	4,110 (28)	psi (MPa)	ASTM D 638
Elongation @ Yield[1]	7.3	%	ASTM D 638
1% Secant Modulus[2]	181,000 (1,250)	psi (MPa)	ASTM D 790
2% Secant Modulus[2]	151,000 (1,040)	psi (MPa)	ASTM D 790
Vicat Softening Point	261 (127)	°F (°C)	ASTM D 1525
Hardness, Shore D	67		ASTM D 2240
Heat Deflection Temperature, 66 psi	162 (72)	°F (°C)	ASTM D 648
Low Temperature Brittleness, F_{50}	<-105 (<-76)	°F (°C)	ASTM D 746

[1] Crosshead speed: 2"/min
[2] Crosshead speed: 0.5"/min

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Users should review the applicable Material Safety Data Sheet before handling the product.

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