

Petrothene

GA818092

Linear Low Density Polyethylene
Profile Extrusion and Blow Molding Grade
Melt Index 0.75 Density 0.9205



Applications

Petrothene GA818092 offers high environmental stress crack resistance characteristics of linear low density polyethylene with the processing properties needed for profile extrusion and blow molding applications. The broad molecular weight distribution of GA818092 provides good melt strength with a significantly reduced tendency to melt fracture. GA818092 is selected by customers for use in drip irrigation tubing, profile extrusion, hoses, squeeze tubes and bottles and blow molding.

Regulatory Status

GA818092 meets the specifications of the Food and Drug Administration regulation 21 CFR 177.1520. This regulation allows for 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 product safety representative for more information.

Processing Techniques

Specific recommendations for processing GA818092 can only be made when the processing conditions, equipment and end-use application are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.75	g/10 min	D 1238
Density	0.9205	g/cc	D 1505
Tensile Stress @ Yield	1,760	psi	D 638
Tensile Stress @ Break	2,330	psi	D 638
Elongation @ Yield	12	%	D 638
Elongation @ Break	760	%	D 638
Flexural Modulus (1% Secant)	54,000	psi	D 790
Environmental Stress Crack Resistance, F ₅₀	>1,000	hrs	D 1693 ¹
Hardness, Shore D	50		D 2240

¹ Condition A, 100% Igepal ® CO-630

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These are typical values and not to be construed as specification limits.

