

Petrothene®

GA818073

Linear Low Density Polyethylene
Blow Molding Grade
Melt Index 0.75 Density 0.9205

Applications

PETROTHENE GA 818073 offers the high environmental stress crack resistance characteristics of linear low density polyethylene with the processing properties needed for blowmolding and extrusion applications. The broad molecular weight distribution of GA818073 combines good melt strength with a significantly reduced tendency to melt fracture, two drawbacks common to conventional fractional melt index LLDPE resins. Applications for this resin include beverage and drip irrigation tubing, squeeze tubes and bottles for pharmaceutical and personal care product packaging, drum liners, highway traffic channellizers and other large, blow molded parts.

Regulatory Status

GA818073 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 sales representative for more information.

Processing Techniques

Processing conditions can only be recommended when the type of equipment and the end-use application are known. For further suggestions, please contact your Equistar sales representative.

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 Strength @ Break	2,170	psi	D 638*
Elongation @ Break	>700	%	D 638*
Flexural Modulus	40,000	psi	D 790
Low Temperature Brittleness, F ₅₀	<-42	°C	D 746**
Heat Deflection Temperature @66 psi	48	°C	D 648
Vicat Softening Point	88	°C	D 1525
Hardness, Shore D	51		D 2240
Environmental Stress Crack Resistance, F ₅₀	>1,000	hrs	D 2561

* Type IV specimen

** Injection molded specimen