

Petrothene

LR732013

High Density Polyethylene

Blow Molding Grade

Melt Index 0.30 Density 0.953



Applications

Petrothene LR732013 exhibits exceptional processability when used in a wide variety of blowmolding processes. Finished articles made from this resin show an excellent balance of stiffness and environmental stress crack resistance. Typical applications include containers for bleach, detergent, household chemicals, and personal care products. LR732013 is formulated with a food-grade antistat.

Regulatory Status

Petrothene LR732013 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 product safety representative for more information.

Processing Techniques

While specific recommendations for processing LR732013 can only be made when the processing conditions, equipment and end use are known, typical stock temperatures range from 340 to 410°F.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.30	g/10 min	D1238
Density	0.953	g/cc	D1505
Tensile Strength @ Yield	4,000	psi	D638
Elongation @ Break	>500	%	D638
Flexural Modulus	181,000	psi	D790
Tensile Impact	128	ft-lb/in.	D1822
Low Temperature Brittleness, F ₅₀	<-76	°C	D746
Heat Deflection Temperature @ 66 psi	75	°C	D648
Vicat Softening Point	126	°C	D1525
Hardness, Shore D	67		D2240
Environmental Stress Crack Resistance, F ₅₀	30	hrs	D1693 ¹
	>500	hrs	D2561

¹ 100% Igepal® CO-630, 50°C.

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

See page 2 for additional information.