

Petrothene

LR732011

High Density Polyethylene

Blow Molding Grade

Melt Index 0.30 Density 0.953

Applications

Petrothene LR732011 exhibits exceptional processability when used in a variety of different 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.

Regulatory Status

Petrothene LR732011 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520(c) (3.1 and (3.2). This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." For molded or extruded applications, use is limited to food types I, IV-B, VI-B, VII-B, and VIII (21CFR176.170c, Table 1), having a pH>5.0 and at room temperature or below. Other limitations or conditions of use may apply. LR 7320-11 contains FDA allowed antioxidants and an antistatic agent. Contact your Equistar sales representative for more information about the use of specific products for specific applications.

Processing Techniques

While specific recommendations for processing LR732011 can only be made when the processing conditions, equipment and end use are known, typical stock temperatures range from 340 to 410°F. For further suggestions, please contact your Equistar sales representative.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	0.30	g/10 min	D 1238
Density	0.953	g/cc	D 1505
Tensile Strength @ Yield	4,000	psi	D 638
Elongation @ Break	>500	%	D 638
Flexural Modulus	181,000	psi	D 790
Tensile Impact	128	ft-lb/in.	D 1822
Low Temperature Brittleness, F ₅₀	<-76	°C	D 746
Heat Deflection Temperature @ 66 psi	75	°C	D 648
Vicat Softening Point	126	°C	D 1525
Hardness, Shore D	67		D 2240
Environmental Stress Crack Resistance, F ₅₀	30	hrs	D 1693 ¹
	>500	hrs	D 2561

¹ 100% Igepal® CO-630, 50°C

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