

Petrothene

LR732031

High Density Polyethylene
Sheet and Profile Grade

Melt Index 0.30 Density 0.953

Applications

The *Petrothene* LR732031 is a high density polyethylene resin that exhibits an excellent balance of stiffness and environmental stress crack resistance. This resin has outstanding extrusion characteristics and excellent melt strength.

Regulatory Status

LR732031 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 representative for more information about the use of specific products for specific applications.

Processing Techniques

Specific recommendations for processing LR732031 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	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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