

**Preliminary
Data Sheet**
Petrothene®

LR776031

**High Density Polyethylene
Sheet and Profile Extrusion Grade**
Melt Index 0.70 Density 0.960+
Applications

PETROTHENE LR776031 is a high density polyethylene resin designed for sheet extrusion and thermoforming. LR776031 exhibits very low sag, high stiffness and good chemical resistance.

**Regulatory
Status**

LR776031 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 LR776031 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	0.70	g/10 min	D 1238
Density	0.960+	g/cc	D 1505
Tensile Strength @ Yield	4,700	psi	D 638
Elongation @ Break	>600	%	D 638
Flexural Modulus	235,000	psi	D 790
Tensile Impact	86	ft-lb/in.	D 1822
Low Temperature Brittleness, F ₅₀	<-76	°C	D 746
Heat Deflection Temperature @ 66 psi	81	°C	D 648
Vicat Softening Point	129	°C	D 1525
Hardness, Shore D	69		D 2240

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