

## LyondellBasell Petrothene® LR732031 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

### Material Notes:

**Applications**PETROTHENE LR 7320-31 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**LR 7320-31 meets the requirements of the Food and Drug Administration, regulation 21 CFR 177.1520. This regulation allows the use of 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 regarding the suitability of specific products for specific applications.**Processing Techniques**Specific recommendations for processing LR 7320-31 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-LR732031-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-LR732031-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in <sup>3</sup>	ASTM D1505
Environmental Stress Crack Resistance	30 hour	30 hour	F <sub>50</sub> ; ASTM D1693
	>= 500 hour	>= 500 hour	F <sub>50</sub> ; ASTM D2561
Melt Flow	0.30 g/10 min	0.30 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength, Yield	27.6 MPa	4000 psi	ASTM D638
Elongation at Break	>= 500 %	>= 500 %	ASTM D638
Flexural Modulus	1.25 GPa	181 ksi	ASTM D790
Tensile Impact	68.3 J/cm	128 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	ASTM D648
Vicat Softening Point	126 °C	259 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	F <sub>50</sub> ; ASTM D746

Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China