

LyondellBasell Petrothene® LR732001 High Density Polyethylene (Sheet & Profile Grade)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Sheet/Thermoforming Grade

Material Notes:

ApplicationsThe PETROTHENE LR 7320 series of polyethylene resins exhibits an excellent balance of stiffness and environmental stress crack resistance. **Regulatory Status**The base resin LR 7320 meets the requirements of 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. **Processing Techniques**Specific recommendations for processing LR 7320 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-LR732001-High-Density-Polyethylene-Sheet-Profile-Grade.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	30 hour	30 hour	F ₅₀ ; ASTM D1693
ESCR, Bottle	>= 500 hour	>= 500 hour	F ₅₀ ; 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 ₅₀ ; ASTM D746

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