

LyondellBasell Petrothene® LP5100 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

ApplicationsPETROTHENE LP 5100 is especially designed for large-part blow molding of durable goods and deep-draw sheet extrusion/thermoforming applications. LP 5100 exhibits excellent impact resistance and ESCR.**Regulatory Status**The LP 5100 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 LP 5100 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-LP5100-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	F ₅₀ ; ASTM D1693
ESCR, Bottle	>= 1000 hour	>= 1000 hour	F ₅₀ ; ASTM D2561
Melt Flow	11.5 g/10 min	11.5 g/10 min	High load; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	25.5 MPa	3700 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Flexural Modulus	1.14 GPa	165 ksi	ASTM D790
Tensile Impact	>= 107 J/cm	>= 200 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	73.0 Â°C	163 Â°F	ASTM D648
Vicat Softening Point	122 Â°C	252 Â°F	ASTM D1525
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	F ₅₀ ; ASTM D746

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