

Petrothene® LR7320

High Density Polyethylene

LyondellBasell Industries

Message:

The PETROTHENE LR 7320 series of polyethylene resins exhibits good stiffness and environmental stress crack resistance. Typical applications include bleach, detergent and household chemicals.

General Information	
Features	Rigid, good High ESCR (Stress Cracking Resistance) Compliance of Food Exposure
Uses	Sheet Bottle Profile
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Blow molding Sheet extrusion molding Profile extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	30.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.6	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Flexural Modulus	1250	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Brittleness Temperature	-76.0	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525

Additional Information	
Elongation at Break, ASTM D638: >500%ESCR, ASTM D2561, F50: >500 hrTensile Impact, ASTM D1822: 128 ft-lb/in	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

