

Petrothene® LR732011

High Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE LR732011 exhibits exceptional processability when used in a variety of different blowmolding processes. Finished articles made from this resin show an excellent balance of stiffness and environmental stress crack resistance. Typical applications include containers for bleach, detergent, household chemicals and personal care products.

General Information	
Additive	Antioxidant
	Antistatic
Features	Antioxidant
	Antistatic
	Food Contact Acceptable
	Good Processability
	Good Stiffness
	High ESCR (Stress Crack Resist.)
Uses	Bottles
	Profiles
	Sheet
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blow Molding
	Profile Extrusion
	Sheet Extrusion

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	> 500	hr	ASTM D2561
50°C, 100% Igepal CO-630, 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
Impact	Nominal Value	Unit	Test Method
Tensile Impact	68.3	J/cm	ASTM D1822
Blow Molding Temperature	171 to 210	°C	
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

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