

Petrothene® LR732013

High Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE LR732013 exhibits exceptional processability when used in a wide variety of 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. LR732013 is formulated with a foodgrade antistat.

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
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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