

Petrothene® LR732031

High Density Polyethylene
LyondellBasell Industries

Message:

The Petrothene LR732031 is a high density polyethylene resin that exhibits an excellent balance of stiffness and environmental stress crack resistance. This resin has outstanding extrusion characteristics and excellent melt strength.

General Information			
Features	Food Contact Acceptable		
	Good Melt Strength		
	Good Stiffness		
	High Density		
	High ESCR (Stress Crack Resist.)		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm³	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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