

Petrothene® LR776031

High Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE LR776031 is a high density polyethylene resin designed for sheet extrusion and thermoforming. LR776031 exhibits very low sag, high stiffness and good chemical resistance.

General Information	
Features	Food Contact Acceptable
	Good Chemical Resistance
	High Density
	High Stiffness
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	32.4	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	1620	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact	45.9	J/cm	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	81.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525

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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

