

# Unilex™ UP.31.946

High Density Polyethylene

United Polychem

## Message:

Unilex™UP. 31.946 is a high density polyethylene material. This product is available in North America. Unilex™UP. The main characteristics of the 31.946 are: high resistance to environmental stress fracture (ESCR).

Unilex™UP. Typical application areas of 31.946 are: food contact applications

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High density		
Uses	Blow molding applications		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm <sup>3</sup>	ASTM D1505
Apparent Density	0.59	g/cm <sup>3</sup>	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.31	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Flexural Modulus - 1% Secant	896	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	137	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525
Additional Information			
Burn Rate, UL 94: 2 in/min			

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Recommended distributors for this material

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