

Description

HDPE 5502: Good stress cracking resistance, Excellent stiffness, Drug Master File listed, USP Class VI approved, FDA compliant ⁽⁴⁾, UL 94HB/746 certified.

Applications: Bleach and Detergents, Industrial chemicals, Industrial parts, Suitable for food packaging.

Characteristics

	Method	Unit	Typical Value
Rheological Properties⁽¹⁾			
Melt Flow Index	D-1238	g/10 min	
190°C/2.16 kg			0.35
190°C/21.16 kg (HLMI)			30
Mechanical Properties⁽¹⁾⁽²⁾			
Tensile Strength @ Yield	D 638, Type IV specimen, 2 in/min	psi	4,000
Elongation at Break	D 638, Type IV specimen, 2 in/min	%	600
Flexural Modulus	D 790	psi	200,000
ESCR ⁽³⁾	D 1693, Cond B	hrs	
100% Igepal			50
10% Igepal			35
Thermal Properties⁽¹⁾			
Melting Point	D-3417	°F	264
Other Physical Properties			
Density	D-792	g/cm ³	0.955
Processing Recommendation			
Blow Molding Stock Temperature		°F	360-400
Extrusion Melt Temperature		°F	380-420

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) The data listed were determined on compression molded specimens and may, therefore, vary from specimens taken from molded articles.

(3) Environmental Stress Crack Resistance (ESCR)

(4) Complies with FDA 21 CFR § 177.1520, Para. (c) 2.1 and 2.2

(5) Anti-stat version available

HDPE 5502 06/2015