

Description

High Density Polyethylene B5845: Excellent stress cracking resistance, high stiffness

Applications: Suitable for lightweighting, 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			0.45
Mechanical Properties⁽¹⁾⁽²⁾			
Tensile Strength @ Yield	D-638, Type IV specimen, 2 in/min	psi	4500
Elongation at Break	D-638, Type IV specimen, 2 in/min	%	200
Flexural Modulus @ 2% strain	D-790	psi	135,000
Flexural Modulus @ 1% strain	D-790	psi	165,000
ESCR ⁽³⁾			
100% Igepal	D1693, B	hrs	>800
10% Igepal			>300
Thermal Properties⁽¹⁾⁽²⁾			
Blow Molding Stock Temperature			360-400°F
Extrusion Melt Temperature			380-420°F
Other Physical Properties			
Density	D-792	g/cm ³	0.958

(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)

B5845 06/2015



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