

Description

Characteristics: HDPE 50100.2: Good melt strength, Excellent stress cracking resistance, good stiffness, excellent impact strength, exceptional forming characteristics.

Applications: 50100.2 is recommended for sheet extrusion, thermoforming, truck bed liners, dunnage containers, large part formed articles.

Characteristics

	Method	Unit	Typical Value
Rheological Properties⁽¹⁾			
Melt Flow Index	D-1238	g/10 min	
190°C/21.6 kg (HLMI)			9.5
Mechanical Properties⁽¹⁾⁽²⁾			
Tensile Strength @ Yield	D 638, Type IV specimen, 2 in/min	psi	3,800
Elongation at Break	D 638, Type IV specimen, 2 in/min	%	600
Flexural Modulus @ 2% strain	D 790	psi	175,500
Notched Izod Impact Strength	D256, 1/8-in. thick specimen	ft-lb/in	10.0
ESCR ⁽³⁾ F ₅₀	D 1693, Cond. B 100% Igepal	hrs	>600
Thermal Properties⁽¹⁾			
Heat Distortion Temperature	D 648	°F	172
Thermal Expansion	D 696	in/in/°F	1×10 ⁻⁴
Melting Point	D-3417	°F	260
Processing Recommendations			
Extrusion Melt Temperature		°F	390 - 480
Thermoforming Surface Temperature	F 1248	°F	310 - 360
Other Physical Properties			
Density	D-792	g/cm ³	0.950
Classifications			
Meets GMP.PE.007 (General Motors) and ESA-M4D197-A (Ford)			

- (1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
- (2) The data listed was determined on press molded specimens and may, therefore, vary from specimens taken from extruded sheet or formed products.
- (3) Environmental Stress Crack Resistance (ESCR)

HDPE 50100.2 Sheet 06/2015



TOTAL PETROCHEMICALS & REFINING USA, INC.
 www.totalrefiningchemicals.com
 1201 Louisiana Street
 Suite 1800
 Houston, TX 77002

TECHNICAL CENTER
 P.O. Box 1200
 Deer Park, Texas 77536
 Phone: 281-884-7500

1-800-344-3462