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HDPE 50100.2

Technical Data Sheet
High Molecular Weight High Density Sheet & Thermoforming Resin

Produced in the United States

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)

Polyethylene