TOTAL PETROCHEMICALS





HDPE 50100.2

Resin Properties ⁽¹⁾ Melt Flow Index, g/10 min 190ºC/21.6 kg	Typical <u>Value</u> 9.0	ASTM Method D 1238
Density, g/cm ³	0.950	D 792
Melting Point, °F	260	D 3417
Mechanical Properties ⁽¹⁾⁽²⁾		
Tensile Strength at Yield, psi	3,800	D 638, Type IV specimen, 2 in/min
Elongation at Break, %	600	D-638, Type IV specimen, 2 in/min
Flexural Modulus, psi	175,500	D 790
Notched Izod Impact Strength, ft-lb/in notch ESCR ⁽³⁾ , F ₅₀ , hrs	10.0	D256, A 1/8 in thick specimen D 1693, Cond B
100% Igepal	> 600	
10% Igepal	120	
Processing		
Recommendation		
Blow Molding Stock Temperature	370 – 450 ⁰F	
Extrusion Melt Temperature	380 – 480 °F	

Polyethylene:

High Molecular Weight High Density Large Part Blow Molding Resin

Characteristics

- Good melt strength
- Good stress cracking resistance
- Good rigidity
- Excellent impact strength
- ASTM D4976-89-PE235
- FDA compliant⁽⁴⁾
- UL 94HB/746 certified

Applications

- Industrial Parts
- Pallets
- Large foam parts
- Suitable for food packaging

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 $(1) \qquad {\rm Data\ developed\ under\ laboratory\ conditions\ and\ are\ not\ to\ be\ used\ as\ specification,\ maxima\ or\ minima.}$

- (2) The data listed was 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



1201 Louisiana Street Suite 1800 Houston, TX 77002

P.O. Box 674411 Houston, TX 77267-4411 Phone: (713) 483-5241 Fax: (713) 483-5252



All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of these products must be guided by the user's own methods for selection of proper formulation. TOTAL PETROCHEMICALS USA, INC. disclaims any responsibility for misuse or misapplication of its products. TOTAL PETROCHEMICALS USA, INC. MAKES NO WARRANTY OF MEROCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL PETROCHEMICALS USA, INC. Lisbility and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.