TOTAL PETROCHEMICALS

TOTAL PETROCHEMICALS USA, INC.

HDPE 8183

Resin Properties[1]	Typical Value	ASTM Method
Melt Flow Index, g/10 min		D 1238
190ºC/2.16 kg	0.55	
190ºC/5.0 kg	1.9	
190ºC/21.6 kg	19.0	
Density, g/cm^3	0.945	D 792
Melting Point, ºF	264	D 3417
Mechanical Properties[1][2]		
Tensile Strength at Yield, psi	3,200	D 638, Type IV specimen, 2 in/min
Elongation at Break, %	> 500	D-638, Type IV specimen, 2 in/min
Secant Modulus of Elasticity at 2% strain, psi	110,000	D-638, Type IV specimen, 2 in/min
Flexural Modulus, psi	140,000	D 790
ESCR[3], hrs	200	D 1693, B 10% Igepal
Thermal Expansion, in/in/ºF	$1x10^{-4}$	D 696
Rockwell hardness, L Scale	41	D 785
Shore Hardness, D Scale	62	D 2240
Thermal Properties[1][2]		
Vicat Softening Temperature	257 ºF	D 1525
Heat Distortion Temperature	158 ºF	D 648

Polyethylene:

Specialty HDPE Injection Blow Molding Resin

Characteristics

- Medium molecular weight
- Narrow molecular weight distribution
- High gloss surface
- Excellent mold release
- ASTM D1248 Type III, Class A, Category 4
- Drug Master File listed
- USP Class VI compliant
- FDA compliant[4]

Applications

- Cosmetic bottles
- Pharmaceutical bottles
- Industrial product containers
- Chemical packaging
- Suitable for food packaging

(1) 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

HDPE 8183 09/2005

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