

FORMflex

POLYETHYLENE MATERIAL PROPERTIES

FORMflex polyethylene meets the conditions of section 21 CFR, Section 177.1520 of the USA Food and Drug Administration's (FDA) Code of Federal Regulations. The resin may be safely used to produce packaging material, containers, and equipment intended for use in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding food.

This data is presented only as typical properties, which to the best knowledge is true and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise. All risks of such use are assumed by the user. Furthermore, nothing contained herein shall be construed as an inducement or recommendation to use any process, or to manufacture or use any product in conflict with existing or future patents.

Melt Index (g/10min)	D 1238	.250 - .300
Density	D1505	.950 - .955
Tensile Strength @ (2 in./min)	D 638 (with type IV specimen)	
Yield (lb./sq. in.)		4,000
Elongation (%)		600
1% Secant Modulus of Elasticity (lb./sq. in)	D 638	120,000
Flexural Stiffness (lb./sq. in.)	D747	125,000
Torsional Stiffness (lb./sq. in.)	D 1043	45,000
Low Temperature Brittleness (F/F50*)		<105°
Moisture Vapor Transmission Rate		
(g-mil/100 sq. in./24 hr. @ 37.8C)	E 96	.3
Water Absorption/24 hr.	D 570	nil
@ Break (P.S.I.)	D 638	4,000
Hardness, Shore D	D 2240	64
IZOD Impact Strength @ Room Temp.		
(Ft. lb./in.)	D 256	6.3
Flexural Modulus @ 1% Secant	D 790	180,000
Heat Deflection Temp. @ 66 P.S.I.	D 648	72° C
VICAT Softening Temp.	D 1525	128° C
Tensile Impact Strength (Ft. lb./in.)	D 1822	110

*(F50 = 50% failure)