

TECHNICAL DATA SHEET

Cutting Board Material (HDPE)

(High Density Polyethylene)

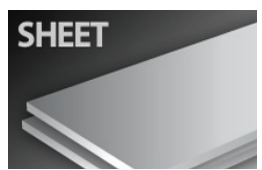
We offer a high density polyethylene specially formulated for only the best consumer and industrial cutting board applications. This material is constructed utilizing a special textured surface finish, enabling long product life and will not allow slippage or dull knives. Our cutting board materials are tough, rugged and functionally stable. This unique formulation and construction provides the strongest and lightest of all available cutting board materials. Key Benefits: acid resistant, will not chip, peel, crack or warp, no moisture, odor or bacteria absorbent, nonporous, easy to clean. Made from HDPE material that meets FDA and Federal Specifications, National Sanitation Foundation.

TYPICAL PROPERTIES of POLYETHYLENE			
Property	LDPE	HDPE	UHMW
PHYSICAL			
Density (lb/in ³) (g/cm ³)	0.033 0.92	0.035 0.96	0.034 0.93
Water Absorption, 24 hrs (%)	<0.01	<0.01	<0.01
MECHANICAL			
Tensile Strength (psi) at 72°F	1,400	4,600	5,800
Tensile Strength (psi) at 150°F	400	400	400
Tensile Modulus (psi)	57,000	200,000	80,000
Tensile Elongation at Break (%)	100	400	300
Flexural Strength at Yield (psi)	1,500	4,600	3,500
Flexural Modulus (psi)	29,000	174,000	88,000
Compressive Strength (psi)	1,400	4,600	3,000
Compressive Modulus (psi)	54,000	100,000	80,000
Shear Strength (psi)	-	-	3,000
Hardness, Shore D	D45	D69	D62-D66
IZOD Notched Impact (ft-lb/in)	No Break	1.3	No Break
THERMAL			
Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	-	6	11
Heat Deflection Temp (°F / °C) at 66 psi at 264 psi	120 / 48 116 / 46	170 / 76 176 / 80	203 / 95 180 / 82
Approx. Melting Temperature (°F / °C)	244 / 118	260 / 125	275 / 136
Max Operating Temp (°F / °C)	160 / 71	180 / 82	180 / 82
Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	- -	- -	2.84 10.0
Flammability Rating	HB	HB<	HB
ELECTRICAL			
Dielectric Strength (V/mil) short time, 1/8" thick	460-700	450-500	2300
Dielectric Constant at 1 MHz	2.25-2.30	2.30-2.35	2.30-2.35
Dissipation Factor at 1 kHz	0.0002	0.0002	0.0005
Surface Resistivity (ohm/square) at 50% RH	> 10 ¹⁵	> 10 ¹⁵	> 10 ¹⁵
Arc Resistance (sec)	135-160	200-250	250-350

Benefits
 Odorless
 Non porous
 Easy clean
 Bacteria absorbent
 Warp free
 Meets FDA / NSF

Applications
 Commercial food preparation
 Food packing
 Food handling

SHAPES AVAILABLE



NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets.
 All values at 73°F (23°C) unless otherwise noted.