

The industry-standard material for commercial cutting boards and food contact surfaces. Plastic-Craft HDPE is manufactured from FDA-compliant virgin resin and meets USDA, NSF, NSF/ANSI 2, and 3-A Dairy standards. Non-porous, knife-friendly, dishwasher-safe, and resurfaceable — engineered for a lifetime of safe food preparation.

FOOD SAFETY
CERTIFIED

- ✓ FDA 21 CFR 177.1520 — food contact approved
- ✓ USDA accepted for meat & poultry facilities
- ✓ NSF / ANSI 2 — food equipment standard
- ✓ NSF 51 — food equipment materials
- ✓ 3-A Dairy Sanitary Standards
- ✓ Canadian CFIA / Health Canada
- ✓ EU Regulation 10/2011 (food plastics)

WHY HDPE CUTTING
BOARDS?

- Non-porous — won't harbor bacteria
- Knife-friendly — won't dull blades
- Resurfaceable & reversible
- Dishwasher & sanitizer safe
- Won't warp, crack, or split
- Odor & stain resistant
- No BPA, phthalates, or toxins
- Color-coded HACCP compliance
- ✓ The #1 material specified by health departments for commercial kitchens

COLORS FOR HACCP

- Red — Raw red meat
- Blue — Raw fish / seafood
- Yellow — Raw poultry
- Green — Fruits & vegetables
- Brown — Cooked meats
- White — Dairy / bakery

AVAILABLE FORMS

- Cutting board sheets (all colors)
- Custom cut-to-size boards
- Natural & black sheets/rods
- Marine Board (UV-stab.)
- Tubes & custom profiles

MATERIAL PROPERTIES — TYPICAL VALUES

PROPERTY	ASTM	TYPICAL VALUE	UNITS
PHYSICAL			
Specific Gravity	D792	0.95 – 0.96	—
Water Absorption, 24h	D570	< 0.01	%
MECHANICAL			
Tensile Strength, Ultimate	D638	4,000	psi (28 MPa)
Tensile Modulus	D638	200,000	psi (1,380 MPa)
Elongation at Break	D638	500	%
Flexural Modulus	D790	200,000	psi (1,380 MPa)
Compressive Strength (10%)	D695	3,500	psi (24 MPa)
Impact, Izod Notched	D256	1.5	ft-lb/in (80 J/m)
Hardness, Shore D	D2240	65 – 70	—
Hardness, Rockwell	D785	R65	—
FRICTION / WEAR			
Coefficient of Friction (Dynamic)	D1894	0.20	vs. steel
Coefficient of Friction (Static)	D1894	0.25	vs. steel
Wear Factor K	D3702	65 × 10 ⁻¹⁰	in³·min/ft·lb·hr
THERMAL			
Heat Deflection @ 264 psi	D648	150	°F (66°C)
Melting Point	D3418	266	°F (130°C)
Max Continuous Service	—	180	°F (82°C)
CTE (Linear)	D696	7.0 × 10 ⁻⁵	in/in·°F
Thermal Conductivity	C177	3.0	BTU·in/hr·ft²·°F
ELECTRICAL			
Volume Resistivity	D257	> 10 ¹⁶	ohm·cm
Dielectric Strength	D149	500	V/mil (20 kV/mm)
Dielectric Constant, 1MHz	D150	2.3	—
FLAMMABILITY			
UL Flammability Rating	UL 94	HB	—

FDA & FOOD SAFETY COMPLIANCE: Our HDPE cutting board stock is manufactured exclusively from virgin FDA 21 CFR 177.1520 compliant resin — no recycled content, no fillers, no additives that could leach into food. The non-porous, closed-cell surface prevents bacterial harborage and is approved for direct food contact by the FDA, USDA, and NSF. Boards withstand commercial dishwashers (up to 180°F) and all standard sanitizing agents including bleach, quaternary ammonium, and peracetic acid. Can be resurfaced (sanded) multiple times to restore a like-new cutting surface, extending service life and reducing replacement costs.

FABRICATION NOTES: Excellent machinability — cut, rout, drill with standard tooling | Weldable by hot plate & hot gas | Not bondable with adhesives — use mechanical fasteners | Thermoformable | Lightweight (floats in water)

CHEMICAL RESISTANCE: Excellent resistance to acids, bases, alcohols, sanitizers, and food-grade cleaning agents. **AVOID:** strong oxidizing acids and aromatic/chlorinated solvents at elevated temperatures.