

High Density PE Sheet

Simona® HDPE Extruded Sheet



Simona HDPE Sheet 600 series high density polyethylene has excellent chemical corrosion resistance and has abrasion resistance, impact resistance, and is easy for fabrication. It can be used (depending on chemistry) up to 180° F and is available in 4' x 8' sheets in thickness up to 4". This sheet is also available in black upon request.

Applications:

- Food processing
- Tanks and vessels
- Machined and fabricated parts
- Laboratory equipment
- Chemical processing
- Corrosion-resistant wall coverings
- Wear, skid and deflector plates
- Ducts, hoods, chute liners and other protective equipment

Features:

- Excellent chemical and corrosion resistance
- Excellent impact and abrasion resistance
- Easily to fabricate, weld, machine or thermoforming
- High-density, slippery surface, UV-resistant (Black only)
- Stress relieved
- Accurate to dimensional tolerances
- Color consistent

TECHNICAL DATA

	ASTM* TEST METHOD	UNIT	TYPICAL VALUE
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PHYSICAL

Density	D-792	g/cc	0.96
Water Absorption (24 hrs @ 73 °F)	D-570	%	<0.01

MECHANICAL

Tensile Strength	D-638	PSI	4,400
Tensile Modulus	D-638	PSI	19,000
Elongation	D-638	%	7,300
Izod Impact	D-256	ft. lbs./in.	2.75
Hardness, Shore D			65

THERMAL

Heat Distortion Temperature at 66 psi	D-648	°F	167
Heat Distortion Temperature at 264 psi	D-648	°F	110
Coefficient of Thermal Expansion Temperature Range	D-696	in./in. °F	10 x 10-5 °F -58 to +170

FLAMMABILITY

Flammability	normal flammability
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Notes:

- Meets FDA Regulation Title 21 CFR 177.1520 (Natural only).
- Maximum application temperature +170°F.
- Also available in 48" x 120", 60" x 120" and 54" x 96".
- NSF Certified Cutting Board material also available in Size 48" x 96", 48" x 120", and 60" x 120".
- Custom lengths, sizes, and special requirements available upon request.

PART NO.	THICKNESS (IN.)	WT. PER SHEET (LBS)
HDPE NATURAL - 4' X 8'		
S340231	1/8	20.2
S340331	3/16	30.3
S340431	1/4	40.4
S340531	3/8	60.6
S340631	1/2	80.8
S340731	3/4	121.2
S340831	1	161.6
S340931	1 1/4	202
S341031	1 1/2	242.4
S341131	1 3/4	282.8
S341231	2	323.3
S341331	2 1/4	363.7
S341431	2 1/2	404.1
S341531	2 3/4	444.5
S341631	3	484.9
S341731	3 1/4	525.3
S341831	3 1/2	565.7
S341931	4	646.5