

4mm & 10mm Corrugated Plastic
UV Direct Printed, Fluted for Ground Stakes

Common Uses
Real Estate, Political & More

Environment
Indoor & Outdoor

Print Sides
Single-sided
Double-sided

Size Options
Custom Size

Other Options Available
Contour Cut
Gloss
Grommets (4mm Only)
Step Stakes (4mm Only)
Heavy Duty Step Stakes

Technical Data >

TECHNICAL DATA SHEET

TYPICAL PHYSICAL PROPERTIES

Thermal Expansion Coefficient (ASTM D 696):

From -30° to 0°C | 6.5 x 10^-5 ° C^-1

From 0 to 30°C | 10.5 x 10^-5 ° C^-1

Water Absorption at 24 hours immersion (ASTM D 648): 0.03%

Melting Temperature (DSC method): ~ 165°C

R-Value at 75°F Mean (ASTM C-177): 0.078 x l (thickness of IntePro in mm)

Water Vapor Transmission Rate (WVTR) at 23°C (ASTM C 209):

WVTR, g/(100 in^2 x Day) = 1.3 x 10^-6 x (p1-p2)/l

Where p1 and p2 are the partial pressures of water vapor in Pascal at the two exposed surfaces of IntePro and l is the total thickness in millimeter of the two skin layers.

Sound Transmission Loss from 400 to 12,800Hz (SAE J1 400):

4mm IntePro, 154lb/msf | 9.6-12.8dB

10mm IntePro, 410lb/msf | 13.1-16.3db

Coefficient of Friction, Static (COF, ASTM D 1894): ~0.30 (IntePro in along the flute direction vs. IntePro in the same direction)

TYPICAL CHEMICAL PROPERTIES

FDA Status:

The based resin material of IntePro meets the requirements of the Food and Drug Administration, 21 CFR 177.1520, for a resin that may be processed for use involving contact with food. The status of pigmented or other modified IntePro is available upon request.

Chemical Resistance:

PP IntePro is resistant to acids, alkalis, salt solutions, solvents, alcohol, water, oil, fat and detergent at room temperature. IntePro is not resistant to aromatic or chlorinated hydrocarbons such as benzene at elevated temperatures and strong oxidizing agents. Information of chemical resistance to specific chemical is available upon inquiry.

pH value:

PP IntePro is inert and hydrophobic. Therefore, generally does not affect the pH factor when it is in contact with an aqueous solution.

COMPOSITION & INFO ON INGREDIENTS

Propylene/Ethylene Copolymer (9010-79-1): 70-100 | 95-100%
Proprietary (Mixtures): 0-30
Polypropylene (9003-07-0): 95-100%
Polypropylene Copolymer (9010-79-1): 95-100%

PHYSICAL & CHEMICAL PROPERTIES

Physical Form: Fluted boards
Specific Gravity: 0.7 to 1.2 (water = 1)
Odor: Insignificant
Solubility in water: Insoluble
Melting Point: 150-170°C (302-338° F)
Flash Point: 422°C (792°F)
Auto Ignition Temp: 425°C (797° F)

EXPOSURE CONTROLS/PERSONAL PROTECTION

Nuisance Dust

Total Dust: 15mg/m3 TWA | 10mg/m3
Respirable Dust: 5mg/m3 TWA | 3mg/m3