

# OPTI-PAC

Cellular PVC Film Fill Media

## OPTI-PAC 1900 IL/IDE COOLING TOWER MEDIA

Opti-Pac 1900 IL/IDE (integral louver / integral drift eliminator) media is manufactured from rigid PVC sheets for crossflow cooling tower applications. The media is fabricated from corrugated PVC sheets that are solvent welded for maximum strength and are resistant to UV, rot, fungus, organic / inorganic acids, alkalis and chemicals normally found in cooling tower waters.

Modules are fabricated in 12" and 24" depths, 12" to 24" widths, and in lengths up to 12'-0" in 2' increments. Custom dimension modules are available upon request. Standard PVC sheet mil thickness is 10 and 15 mil (after forming) with other mil thicknesses available upon request. Sheet spacing is 0.75". Heat transfer area (Wetted Surface) is 48 ft<sup>2</sup> per ft<sup>3</sup>. Weight per cubic foot is 1.60 lb/ft<sup>3</sup> for 10-mil and 2.40 lb/ft<sup>3</sup> for 15-mil.

PVC sheets have the following properties:

| Physical Property        | ASTM Test | Units                 | Value                                     |
|--------------------------|-----------|-----------------------|---|
| Density                  | D772      | g/cm <sup>3</sup>     | 1.39 – 1.45                               |
| Tensile Strength (yield) | D882      | lb/in <sup>2</sup>    | 6,000 min                                 |
| Flexural Strength        | D790      | lb/in <sup>2</sup>    | >11,000                                   |
| Flexural Modulus         | D790      | lb/in <sup>2</sup>    | >525,000                                  |
| Stiffness in Flexure     | D747      | lb/in <sup>2</sup>    | 525,000 min                               |
| Gardner Impact Strength  | D4226     | in lb/mil             | 1.0 min                                   |
| Tensile Impact Strength  | D1822     | ft lb/in <sup>2</sup> | 255 min                                   |
| Heat Deflection          | D648      | Deg F.                | 162 min                                   |
| Flammability             | D635      |                       | Self extinguishing<br>Less than 5 seconds |
| Flame Spread Rate        | E 84      |                       | Less than 20                              |



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