

## Technical Datasheet – PE140 (White)

- Closed Cell
- Non cross-linked laminated polyethylene foam
- Ideal for packaging applications requiring interior cushioning protection
- The foam is CFC and HCFC free
- 100% recyclable

| Properties                             | Test Method  | Unit                      | Tolerance    | Value             |
|--|--|---------------------------|--------------|-------------------|
| Density                                | ASTM D3575,<br>Suffix W,<br>Method B; ISO 845                        | Kg/m <sup>3</sup>         | ±10%         | 9.0 (140)         |
| Plank thickness                        | ISO 1923   | mm                        | - 0 / + 10%  | 50                |
| Plank width                            | ISO 1923   | mm                        | - 0 / + 30mm | 600               |
| Plank length                           | ISO 1923   | mm                        | - 0 / + 50mm | 2750              |
| Compression strength                   | ASTM D3575, Suffix D   | kPa                       |              |                   |
| 10%                                    |  |                           |              | 579               |
| 25%                                    |  |                           |              | 607               |
| 50%                                    |  |                           |              | 910               |
| Compressive creep<br>(1000hrs @ 23° C) | ASTM D3575,<br>Suffix BB   | kPa                       | < 10%        | 138               |
| Compression set                        | ASTM D3575,<br>Suffix B (50% compr.)<br>EN/ISO 1856 (23° 25% compr.) |                           |              | < 15%             |
|  |  |                           |              | < 8%              |
| Thermal stability                      | ASTM D3575,<br>Suffix S; ISO 2796                                    |                           |              | < 1%              |
|  |  |                           |              | < 2%              |
| Thermal conductivity                   | ASTM D3575, Suffix V;<br>EN28301; ISO 2581                           | W/m.K                     |              |                   |
| 24° C                                  |  |                           |              | 0.42 (0.06)       |
| -5° C                                  |  |                           |              | 0.37 (0.05)       |
| Water absorption                       | ASTM D3575, Suffix L; ISO<br>2896; ASTM C272                         | kg/m <sup>2</sup><br>Vol% |              | 0.2 (1.0)<br>< 1% |
| Buoyance                               | ASTM D3575, Suffix AA  | kg/m <sup>3</sup>         |              | 53 (848)          |
| Tensile strength peak                  | ASTM D3575,<br>Suffix T; ISO 1798                                    | kPa                       |              | 160 (1100)        |
| Tensile elongation                     | ASTM D3575,<br>Suffix T; ISO 1798                                    |                           |              | 31%               |
| Tear strength                          | ASTM D3575,<br>Suffix G; ISO 1798                                    | N/mm                      |              | 54 (9.5)          |