# TECHNICAL DATASHEET:
## HYPUR-CEL® I2540L Open Cell Polyurethane Foam

### PRODUCT DESCRIPTION

HyPUR-cel® I2540L is a low-resiliency, energy-absorbing open cell polyurethane foam with a target density of 25 pcf (22–28 pcf tolerance) and a 25% Compression Deflection of 40 psi (30–50 psi tolerance) per ASTM D1056. The "L" designation identifies a formulation with 15% resilience per ASTM D2632 that dissipates impact and vibration energy with fast recovery and low hysteresis loss. The material operates across a service temperature range of -40°F to 250°F and combines 225 psi tensile strength, 125% elongation and 25 lb./in tear strength with an exceptionally low compression set of 0.5% per ASTM D1056 at 23°C.

### TYPICAL APPLICATIONS

- Industrial gasketing and sealing under high compressive loads
- Energy-absorbing pads and impact protection in industrial equipment
- Vibration damping and anti-rattle components under heavy loads
- Protective packaging for heavy or sensitive components
- Construction, transportation and industrial cushioning pads

### PRODUCT FEATURES & BENEFITS

- Low-resiliency "L" formulation absorbs energy with fast recovery and low hysteresis loss (15% resilience per ASTM D2632)
- Exceptionally low compression set (0.5% at 23°C per ASTM D1056, 1% at 70°C per ASTM D3574)
- High tensile (225 psi) and tear strength (25 lb./in) for clean die-cutting
- Breathable open cell structure allows air and moisture passage
- Superb compression fatigue properties for repeated cycling applications
- Dimensionally stable across a wide service temperature range (-40°F to 250°F)
- Available with adhesives, laminated films, fabrics and custom coatings

### TECHNICAL DATA

| TECHNICAL DATA | TYPICAL VALUE | TOLERANCE | TEST METHOD |
|---|---|---|---|
| **Density** | 25 pcf | 22 – 28 pcf | ASTM D3574 |
| **Compression Deflection 25%** | 40 psi | 30 – 50 psi | ASTM D1056 |
| **Compression Set 50% (23°C)** | 0.5% | 3% max | ASTM D1056 |
| **Compression Set 50% (70°C)** | 1% | 5% max | ASTM D3574 |
| **Tensile Strength** | 225 psi | N/A | ASTM D3574 |
| **Elongation** | 125% | N/A | ASTM D3574 |
| **Tear Strength** | 25 lb./in | N/A | ASTM D624 |
| **Resilience** | 15% | N/A | ASTM D2632 |
| **Service Temperature** | -40°F to 250°F | — | — |

**Notes:**

Provisional typical properties as published by Rubberlite Inc. (property sheet issue date 9/16/24). Values are typical and are not to be used as acceptance or rejection criteria. No flammability rating is listed on the current manufacturer sheet.

Availability: Standard 60 inch (1.52 m) wide rolls with capabilities to produce in various widths. Available in 50 feet (15.24 m) and 100 feet (30.48 m) lengths, skived to custom thicknesses. Available with adhesives, laminated fabrics, films, custom coatings or composites. Various color options available with the ability to custom color match using our fully reacted colorants. Other additives, such as anti-microbial and flame retardants, are available depending on sales opportunities and volume.

Source: Rubberlite Inc. HyPUR-cel® I2540L property sheet, issue date 9/16/24. HyPUR-cel® is a registered trademark of Rubberlite Inc.

Specifications are believed to be accurate at the time of publication and are subject to change without notice. It is the responsibility of the end-user to test and determine suitability of this material for a particular application. H-O will provide samples for this purpose at no charge. **REV. 0**