# TECHNICAL DATASHEET:
## HYPUR-CEL® S2015 Open Cell Polyurethane Foam

### PRODUCT DESCRIPTION

HyPUR-cel® S2015 is an open cell polyurethane foam with a typical density of 20 pcf (17–23 pcf tolerance) and a 25% Compression Deflection of 15 psi (12–18 psi tolerance) per ASTM D1056, the highest density and firmness in the HyPUR-cel® S-series. The material operates across an extended service temperature range of -67°F to 250°F and exhibits exceptional elongation of 500% with 300 psi tensile strength and 45 lb./in tear strength. S2015 is thermoformable and suited for applications requiring a firm, high-density conformable foam with outstanding stretch, structural integrity and dimensional stability across a wide temperature range.

### TYPICAL APPLICATIONS

- Thermoformed padding and contoured cushioning components
- Conformable gasketing and sealing over complex geometries
- Automotive interior soft-touch and acoustic applications
- Medical device padding and body-contact cushioning
- Cryogenic and low-temperature sealing applications

### PRODUCT FEATURES & BENEFITS

- Highest-density, firmest S-series grade (20 pcf / 15 psi) with 300 psi tensile strength
- Exceptional 500% elongation and 45 lb./in tear strength
- Breathable open cell structure allows air and moisture passage
- Thermoformable for custom contoured part production
- Low compression set for long-term shape and seal retention
- Dimensionally stable across an extended service temperature range (-67°F to 250°F)
- Available with adhesives, laminated films, fabrics and custom coatings

### TECHNICAL DATA

| TECHNICAL DATA | TYPICAL VALUE | TOLERANCE | TEST METHOD |
|---|---|---|---|
| **Density** | 20 pcf | 17 – 23 pcf | ASTM D3574 |
| **Compression Deflection 25%** | 15 psi | 12 – 18 psi | ASTM D1056 |
| **Compression Set 50%** | 4% | 6% max | ASTM D1056 |
| **25% CFD** | 11.5 psi | N/A | ASTM D3574 |
| **Tensile Strength** | 300 psi | N/A | ASTM D3574 |
| **Elongation** | 500% | N/A | ASTM D3574 |
| **Tear Strength** | 45 lb./in | N/A | ASTM D624 |
| **Resilience** | 35% | N/A | ASTM D2632 |
| **Service Temperature** | -67°F to 250°F | — | — |

**Notes:**

Provisional typical properties as published by Rubberlite Inc. (property sheet issue date 3/19/24). 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 upon volume.

Source: Rubberlite Inc. HyPUR-cel® S2015 property sheet, issue date 3/19/24. 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**