TECHNICAL DATASHEET:
HYPUR-CEL® S1508 Open Cell Polyurethane Foam

PRODUCT DESCRIPTION

HyPUR-cel® S1508 is an open cell polyurethane foam with a typical density of 15 pcf (12–18 pcf tolerance) and a 25% Compression Deflection of 8 psi (5.5–10.5 psi tolerance) per ASTM D1056. The material operates across an extended service temperature range of -67°F to 250°F and exhibits very high elongation of 400% with strong tensile strength of 180 psi and 28 lb./in tear strength combined with low compression set. S1508 is thermoformable and suited for applications requiring a firmer, higher-density conformable foam with excellent 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

- Firmer 15 pcf / 8 psi S-series grade with 180 psi tensile 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
- High stretch (400% elongation) for conformable fit over complex geometries
- 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	15 pcf	12 – 18 pcf	ASTM D3574
Compression Deflection 25%	8 psi	5.5 – 10.5 psi	ASTM D1056
Compression Set 50%	2%	5% max	ASTM D1056
25% CFD	6.3 psi	N/A	ASTM D3574
Tensile Strength	180 psi	N/A	ASTM D3574
Elongation	400%	N/A	ASTM D3574
Tear Strength	28 lb./in	N/A	ASTM D624
Resilience	30%	N/A	ASTM D2632
Service Temperature	-67°F to 250°F	—	—

Notes:

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® S1508 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**