TECHNICAL DATASHEET:
HYPUR-CEL® I2025 Open Cell Polyurethane Foam

PRODUCT DESCRIPTION

HyPUR-cel® I2025 is an open cell polyurethane foam with a typical density of 20 pcf (17–23 pcf tolerance) and a 25% Compression Deflection of 18 psi typical (20–30 psi tolerance as published) per ASTM D1056. The material operates across a service temperature range of -40°F to 250°F and achieves a flammability pass rating per FMVSS-302 at 0.063" or thicker. I2025 offers a firm compression profile with 160 psi tensile strength and 18 lb./in tear strength, making it well suited for structural gasketing, cushioning and sealing applications that need robust load-bearing capacity with breathability and long-term dimensional stability.

TYPICAL APPLICATIONS

- Automotive seating and structural interior cushioning
- Industrial gasketing and sealing under moderate to high compressive loads
- Electronic enclosure sealing and vibration dampening
- Medical device padding and protective packaging
- Construction and building envelope weathersealing

PRODUCT FEATURES & BENEFITS

- Firm compression profile (18 psi at 25% deflection) with high tensile (160 psi) and tear strength (18 lb./in)
- Breathable open cell structure allows air and moisture passage
- Excellent high-temperature compression set for long-term seal retention
- 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
- FMVSS-302 compliant (Pass @ 0.063" or thicker)

TECHNICAL DATA

TECHNICAL DATA	TYPICAL VALUE	TOLERANCE	TEST METHOD
Density	20 pcf	17 – 23 pcf	ASTM D3574
Compression Deflection 25%	18 psi	20 – 30 psi	ASTM D1056
Compression Set 50%	1%	3% max	ASTM D1056
Compression Set 50%	2.2%	5% max	ASTM D3574
25% CFD	14 psi	N/A	ASTM D3574
Tensile Strength	160 psi	N/A	ASTM D3574
Elongation	125%	N/A	ASTM D3574
Tear Strength	18 lb./in	N/A	ASTM D624
Resilience	29%	N/A	ASTM D2632
Flammability	Pass @ 0.063" or Thicker	N/A	FMVSS-302
Service Temperature	-40°F to 250°F	—	—

Notes:

Typical properties as published by Rubberlite Inc. (property sheet issue date 3/11/24). Values are typical and are not to be used as acceptance or rejection criteria.

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® I2025 property sheet, issue date 3/11/24. 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**