TECHNICAL DATASHEET:
HYPUR-CEL® I0501 Open Cell Polyurethane Foam

PRODUCT DESCRIPTION

HyPUR-cel® I0501 is an open cell polyurethane foam with a typical density of 5 pcf (3.5–6.5 pcf tolerance) and a 25% Compression Deflection of 1 psi (0.5–2.5 psi tolerance) per ASTM D1056, making it the softest grade in the HyPUR-cel® I-series. 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. I0501 combines very low sealing force with excellent high-temperature compression set, superb compression fatigue properties and dimensional stability, making it well suited for low-closure-force gasketing, dust sealing and light cushioning.

TYPICAL APPLICATIONS

- Low-force gasketing and dust sealing
- HVAC and air filtration gasketing
- Electronic enclosure sealing and vibration dampening
- Medical device padding and protective packaging
- Automotive interior cushioning and anti-rattle components

PRODUCT FEATURES & BENEFITS

- Softest HyPUR-cel® I-series grade (1 psi at 25% deflection) for very low closure force
- 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	5 pcf	3.5 – 6.5 pcf	ASTM D3574
Compression Deflection 25%	1 psi	0.5 – 2.5 psi	ASTM D1056
Compression Set 50%	1%	3% max	ASTM D1056
Compression Set 50%	5%	15% max	ASTM D3574
25% CFD	0.6 psi	N/A	ASTM D3574
Tensile Strength	20 psi	N/A	ASTM D3574
Elongation	125%	N/A	ASTM D3574
Tear Strength	3.4 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 2/22/24). 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® I0501 property sheet, issue date 2/22/24. 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**