TECHNICAL DATASHEET:
HYPUR-CEL® I2015L Open Cell Polyurethane Foam

PRODUCT DESCRIPTION

HyPUR-cel® I2015L is a low-resiliency, energy-absorbing 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 "L" designation identifies a formulation with 13% 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, achieves a flammability pass rating per FMVSS-302 at 0.063" or thicker, and combines 155 psi tensile strength, 160% elongation and 17.5 lb./in tear strength with an exceptionally low compression set of 0.1% per ASTM D1056.

TYPICAL APPLICATIONS

- Impact and vibration damping pads in electronics and equipment
- Energy-absorbing cushioning in protective cases and packaging
- Anti-rattle and anti-vibration gasketing in automotive interiors
- Medical device padding and shock isolation
- Industrial bumpers and stops where low rebound is required

PRODUCT FEATURES & BENEFITS

- Low-resiliency "L" formulation absorbs energy with fast recovery and low hysteresis loss (13% resilience per ASTM D2632)
- Exceptionally low compression set (0.1% per ASTM D1056, 0.85% per ASTM D3574)
- 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
- 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%	15 psi	12 – 18 psi	ASTM D1056
Compression Set 50%	0.1%	3% max	ASTM D1056
Compression Set 50%	0.85%	5% max	ASTM D3574
25% CFD	11.5 psi	N/A	ASTM D3574
Tensile Strength	155 psi	N/A	ASTM D3574
Elongation	160%	N/A	ASTM D3574
Tear Strength	17.5 lb./in	N/A	ASTM D624
Resilience	13%	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® I2015L 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**