TECHNICAL DATASHEET:
HYPUR-CEL® R2015T Open Cell Polyurethane Foam

PRODUCT DESCRIPTION

HyPUR-cel® R2015T is a high-resilience open cell polyurethane foam in the HyPUR-cel® R-series with a typical density of 20 pcf (17–23 pcf tolerance) and a 25% Compression Deflection of 15 psi (12–22 psi tolerance) per ASTM D1056. It delivers 57% resilience per ASTM D2632 together with 150 psi tensile strength, 240% elongation and 26 lb./in tear strength, a substantially tougher and more elastic profile than R2015 at the same density and firmness. The material operates across a service temperature range of -40°F to 250°F and is engineered for stable energy return, low hysteresis loss and excellent stress relaxation resistance through repeated cyclic compression.

TYPICAL APPLICATIONS

- Dynamic sealing and gasketing requiring consistent force recovery
- Footwear and sporting goods components requiring durable energy return
- Energy return and vibration isolation pads in industrial equipment
- Repeated-deflection bumpers, stops and anti-fatigue components
- Die-cut resilient spacers and cushions in automotive and electronics assemblies

PRODUCT FEATURES & BENEFITS

- High resilience (57%) with 150 psi tensile and 240% elongation
- Breathable open cell structure allows air and moisture passage
- Superb compression fatigue properties: elastomeric cell structure maintains integrity through 1M+ cycles at 50% compression
- Excellent stress relaxation resistance maintains sealing force over time
- Low hysteresis loss for efficient energy return in dynamic applications
- Dimensionally stable across a wide service temperature range (-40°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 – 22 psi	ASTM D1056
Compression Set 50%	1.5%	3% max	ASTM D1056
25% CFD	16 psi	N/A	ASTM D3574
Tensile Strength	150 psi	N/A	ASTM D3574
Elongation	240%	N/A	ASTM D3574
Tear Strength	26 lb./in	N/A	ASTM D624
Resilience	57%	N/A	ASTM D2632
Service Temperature	-40°F to 250°F	—	—

Notes:

Typical properties as published by Rubberlite Inc. (property sheet issue date 1/15/26). 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® R2015T property sheet, issue date 1/15/26. 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**