TECHNICAL DATASHEET:
HYPUR-CEL® I3050L Open Cell Polyurethane Foam

PRODUCT DESCRIPTION

HyPUR-cel® I3050L is a low-resiliency, energy-absorbing open cell polyurethane foam with a typical density of 30 pcf (26–34 pcf tolerance) and a 25% Compression Deflection of 50 psi (40–60 psi tolerance) per ASTM D1056. The "L" designation identifies a formulation with 16% 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 and combines 270 psi tensile strength, 145% elongation and 28 lb./in tear strength with an exceptionally low compression set of 0.5% per ASTM D1056.

TYPICAL APPLICATIONS

- Industrial gasketing and sealing under high compressive loads
- Energy-absorbing pads and impact protection in industrial equipment
- Vibration damping and anti-rattle components under heavy loads
- Protective packaging for heavy or sensitive components
- Construction, transportation and industrial cushioning pads

PRODUCT FEATURES & BENEFITS

- Low-resiliency "L" formulation absorbs energy with fast recovery and low hysteresis loss (16% resilience per ASTM D2632)
- Exceptionally low compression set (0.5% per ASTM D1056, 1% per ASTM D3574)
- High tensile (270 psi) and tear strength (28 lb./in) for clean die-cutting
- 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

TECHNICAL DATA

TECHNICAL DATA	TYPICAL VALUE	TOLERANCE	TEST METHOD
Density	30 pcf	26 – 34 pcf	ASTM D3574
Compression Deflection 25%	50 psi	40 – 60 psi	ASTM D1056
Compression Set 50%	0.5%	3% max	ASTM D1056
Compression Set 50%	1%	5% max	ASTM D3574
Tensile Strength	270 psi	N/A	ASTM D3574
Elongation	145%	N/A	ASTM D3574
Tear Strength	28 lb./in	N/A	ASTM D624
Resilience	16%	N/A	ASTM D2632
Service Temperature	-40°F to 250°F	—	—

Notes:

Provisional typical properties as published by Rubberlite Inc. (property sheet issue date 11/6/24). 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® I3050L property sheet, issue date 11/6/24. 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**