TECHNICAL DATASHEET:
HYPUR-CEL® V20400 Viscoelastic Open Cell Polyurethane Foam

PRODUCT DESCRIPTION

HyPUR-cel® V20400 is a viscoelastic open cell polyurethane foam with a typical density of 20 pcf (17–23 pcf tolerance) and a 25% CFD of 9 psi (7–12 psi tolerance) per ASTM D3574. The material delivers very low resilience of 5% with 160% elongation and an exceptionally low compression set of 0.1% per ASTM D1056, operating across a service temperature range of -40°F to 250°F. V20400 is the highest-density and firmest grade in the CFD-rated V-series and is thermoformable, suited for premium body-contact cushioning, structural impact protection and pressure management applications requiring slow force recovery, high load capacity and outstanding shape retention.

TYPICAL APPLICATIONS

- Body-contact cushioning and pressure management components
- Automotive seating comfort layers and headrests
- Medical device padding and patient positioning aids
- Impact protection and energy absorbing assemblies
- Thermoformed contoured cushion and ergonomic padding

PRODUCT FEATURES & BENEFITS

- Highest-density, firmest CFD-rated V-series grade (20 pcf / 9 psi CFD)
- Breathable open cell structure allows air and moisture passage
- Thermoformable for custom contoured part production
- Very low resilience (5%) for slow force recovery and pressure distribution
- Exceptionally low compression set (0.1% per ASTM D1056) for long-term shape retention
- High stretch (160% elongation) for conformable fit over complex geometries
- Impact resistance for energy absorbing and protective 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
CFD 25%	9 psi	7 – 12 psi	ASTM D3574
Compression Set 50%	0.1%	3% max	ASTM D1056
Compression Set 50%	1%	5% max	ASTM D3574
Tensile Strength	100 psi	N/A	ASTM D3574
Elongation	160%	N/A	ASTM D3574
Tear Strength	15 lb./in	N/A	ASTM D624
Resilience	5%	N/A	ASTM D2632
Service Temperature	-40°F to 250°F	—	—

Notes:

Provisional typical properties as published by Rubberlite Inc. (property sheet issue date 6/30/25). 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® V20400 property sheet, issue date 6/30/25. 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**