

CW90

Norseal® CW90 super soft polyurethane foam

Conforms to demanding sealing applications and interior requirements

In order to meet the increasingly demanding requirements of the automotive market, **Saint-Gobain®** has developed **Norseal CW90**, a polyurethane foam manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, intended to deliver superior sealing performances. By combining high material softness with outstanding sealing performances, CW90 provides a unique solution for applications requiring water tightness yet high softness and conformability.

Regarding water sealing performance, **Norseal CW90** can be used with only 30% compression to achieve full sealability to water, dust, wind and noise, even under extreme environmental and temperature conditions. Also, CW90 could pass IPX7 testing.

Norseal CW90 is intended to provide a suitable solution with softness when large tolerances must be recovered or when very low deflection force on pieces in contact is needed.

Tailored to match the demanding requirements of applications inside the car interior or in contact with the circulating air, CW90 has been intended to reach especially low fogging and VOC emissions as well as low smell. This exceptional blend of distinctive properties makes CW90 the most suitable solution for a broad range of highly demanding gasketing applications in automotive.

Features & Benefits

- Excellent water sealing performance and aging capabilities
- Softness, conformability and low force to compress for large tolerances recovery and no distortion on pieces in contact
- Low fogging and VOC emissions, meet GMW3232 FR spec
- Broad temperature range allowing automotive underhood application



APPLICATIONS

- Automotive HVAC gasketing
- Instrument panel and windscreen sealing
- Roof and pillar mounting
- Rack roof sealing
- Door lock sealing

Norseal CW90 – Properties

Performance tests are run using standard test procedures.

The values presented are typical values and should not be used for specification purposes.

Property	Test Method	Value or Rating
Density: (kg/m ³)	ASTM D1667	100
Thickness: (mm)	-	3.2, 4.5, 6, 8, 10, 12, 15, 17
Force to Compress @ 50%: kPa	ASTM D1667	20
Compression Deflection @ 50%: kPa	ASTM D1667	12
Compression Set (%): @ 70%, 70°C, 24h	ASTM D-1667	< 5%
Compression Set (%): @ 70%, 80°C, 24h		< 10%
Tensile Strength: kPa	ASTM D-412	310
Elongation (%)	ASTM D-412-Die A2	116
Water sealing @50%, 1 mH water	IPX7	Pass
Fogging	GMW3235	Pass
Flammability	GMW3232	Pass
Temperature	Continuous: -40 ~ 90°C Intermittent, max: 120°C	
Color	Black	

Important Instructions

Because **Saint-Gobain** cannot anticipate or control every potential application, we strongly recommend testing of this product under individual application conditions prior to commercial use.

Shelf Life

12 months after the date of manufacture when stored in original packaging at temperatures up to 70°F (21°C) and 50% relative humidity.

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