TREMCO

TECHNICAL DATA SHEET

EnerSEAL® JS780S

Polyisobutylene IG Primary Sealant for Desiccated Foam Spacers

PRODUCT DESCRIPTION

EnerSEAL® JS780S is a one-component polyisobutylene-based primary insulating glass sealant.

BASIC USES

EnerSEAL JS780S provides a barrier to moisture vapor ingress and gas loss and is specially developed for the manufacturing of IG units using ***pre-extruded, flexible warm-edge spacers.***

FEATURES & BENEFITS

- Flexible at low temperatures
- High ultraviolet resistance
- Very good adhesion to glass, aluminum, galvanized steel, stainless steel, and rigid polymeric warm-edge spacers
- Non-fogging
- Extremely low moisture and gas permeability rates
- Very easy to use

AVAILABILITY

Available from your local Tremco Field Representative via Tremco Warehouses.

PACKAGING

7 kg cylindrical slugs (9.75" x 7.5" dia.)

COLORS & CONSISTENCY

Black, odorless, permanently plastic

STORAGE & SHELF LIFE

Store EnerSEAL JS780S in dry plant conditions between 40 °F to 80 °F.

Shelf life in original unopened packaging is 24 months.

APPLICABLE STANDARDS

EnerSEAL JS780S when used with quality desiccated foam spacer systems and keen workmanship will conform to ASTM E2190 and CAN/CGSB 12.8.

LIMITATIONS

EnerSEAL JS780S is not suited for the manufacture of IG units with *rigid IG spacers that require fames handling*. Tremco recommends the use of Tremco EnerSEAL® JS680 for these applications.

SUBSTRATE PREPARATION

Glass bonding surface must be cleaned with hot water over 120 °F (50 °C) and mechanically washing equipment. Glass and spacer bonding surfaces must be clean and dry. Coated glass may require edge deletion, so consult your glass supplier for their recommendations.

APPLICATION

- EnerSEAL JS780S can be applied with extrusion machines that are commonly used in the insulating glass industry at a temperature of 230 °F to 270 °F (110 °C to 130 °C) depending on the desired pressure and extrusion speed.
- Apply a regular and continuous profiled bead, following a minimum pre-established thickness or coverage weight/height for your design.
- Compression must be applied to ensure regular, sufficient deformation and wet-out of the EnerSEAL JS780S bead.
- Pay particular attention to the continuity of the EnerSEAL JS780S profile beads in the corners.
- In service temperature range is -25 °F to 180 °F (-30 °C to 82 °C).

CLEAN UP

Excess sealant and smears are best removed from glass with safety glass scrapers to hold the flat razor-blade. Where mechanical removal above is not possible, uncured material on plant manufacturing surfaces can be removed with acetone. Avoid heat-guns, as they can overhead and generate fumes.

WARRANTY

A repair or replacement warranty is available on all Tremco products. Visit https://www.tremcosealants.com/warranties/ for details.

TYPICAL PHYSICAL PROPERTIES		
PROPERTY	**TEST METHOD**	**TYPICAL RESULTS**
Type		Polyisobutylene IG Primary Sealant
Color		Black
Solids	EN 1279-6 G	100% Volatility of 0.08%
Specific Gravity and lbs/gal	ISO 1183	1.07 for about 8.9 lbs/gal
Moisture Vapor Transmission Rate	EN 1270-4 D	<0.05 g/M²/day, 2 mm film
Argon Gas Permeability	EN 1279-4 D	<0.0001 g/M²/day, 2 mm film
Application Temperature		230 °F to 270 °F (110 °C to 130 °C)
Durability	ASTM E2190, EN 1279-2 & EN 1279-3	Passes

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

ESJS780SDS/1222