



BETAFORCE™ 2850S

Description Two component polyurethane adhesive with moderate curing speed at room temperature. Designed for hybrid applications where bigger differences are expected in the thermal expansion of dissimilar materials and a longer open time is required.

Benefits & Features Integrates unique properties like high modulus, high strength and optimized elongation in one system, provides industry leading retention of mechanical properties over a wide temperature range, ideal for dissimilar material bonding where differences are expected in the thermal expansion of structural materials.

Typical Applications All Dow Automotive products are primarily developed in cooperation with the automobile manufacturers, according to their needs and their specifications. They are approved for the specific applications as defined by the customer. The uses of the product other than approved application have to be released in written form by the Technical Service of Dow Automotive Systems.

Uncured Properties	Adhesive	Component A	Component B	Unit
Color	--	Black	White	
Density	--	1.17	1.41	g/cm ³
Viscosity ¹ (Extrusion Rate)	--	25.0	30.0	g/min

Cured Properties	Adhesive	Unit
Lap Shear Strength ²	11.0	MPa
Tensile Modulus ³	27.0	MPa
Tensile Strength ³	10.0	MPa
Tensile Elongation at Break ³	120	%

Application Technique	
Adhesive	Can be dispensed from bulk containers into standard meter mix equipment. The proper mix ratio is in turn dispensed manually or robotically through a static mixer equipped gun. Seal materials should be fabricated from Viton or UHMWPE. Mixing Ratio: 1:1 ± 0.05 Open Time: approx. 10-15 minutes Cure: 24 hours @ 23°C

Packaging/Sizes Available	
Adhesive	Drums, pails, cartridges

Storage & Stability	
Adhesive	The shelf life of this material is assured for 180 days for pails and drums and 90 days for cartridges (from the date of manufacture) at temperatures below 32°C in an unopened container.

Toxicity and Safety Information

Read the Safety Data Sheet before using this material. Toxicity and safety information is included in the SDS.

Food Contact Applications

Dow Automotive products are not approved for direct or indirect food contact or drinking water applications. If your applications include food contact or drinking water requirements, please contact your Dow representative. For more information on the regulatory status of this product, please refer to the SDS for this product.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ approximate, Ballan, 4 bar/2 mm nozzle

² Bond Thickness: 2.0 mm

³ ASTM D 412-2006a

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- use as a critical component in medical devices that support or sustain human life; or
- use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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