



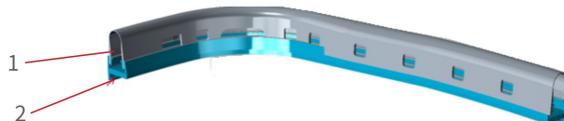
## RUBBER VESTIBULE DIAPHRAGM

### OVERVIEW ▶▶▶

Rubber vestibule diaphragm, located at the end of the vehicle body, is a component composed of a metal frame and rubber profiles or composite materials that can reduce train air resistance. There are mainly compression type and non-contact type .

### CHARACTERISTIC ▶▶▶

#### STRUCTURE



- ① Rubber capsule: It use integral stereovulcanization molding with EPDM rubber material, the product includes rubber and surface coating
- ② Composition of the car body frame: Connecting the car body and the rubber vestibule diaphragm, which can realize the quick disassembly structure design.

#### CHARACTERISTIC

TMT windshields have characteristics such as high lifespan, high weather resistance, high elasticity, high deflection, high elasticity, and high pollution resistance, which can meet the application needs of various high and low temperature environmental conditions;

#### TECHNICAL PARAMETER

Technical item point	unit	Technical item point
Hardness	shoreA	60-70
Tensile strength	MPa	≥9.8
Elongation at break	%	≥450
Aging resistance performance 40°C×100pphm×20%×96h	/	No cracking

#### APPLICATION CONDITIONS

Environmental temperature: -20 °C~+60 °C, relative humidity ≤ 95%. Rubber vestibule diaphragm can adapt to vehicle motion curves, improve the smoothness of train operation, reduce wind resistance and noise, and provide passengers with a safe and comfortable passage environment.

### CAPABILITIES ▶▶▶

- TMT has rich experience in the application of external windshield products. A series of internal and external windshield products have been developed and applied. Covering domestic CRH1CRH2、CRH380A、CRH380B、CRH380C、CR400AF、CR400BF、CR300AF、CR300BF、CR450、CR200J、Sanya urban trains, UAE diesel multiple units.
- The testing capability based on system integration has been formed. Environmental simulation tests (high and low temperature, ozone, ultraviolet) can be conducted on external windshield capsule materials, and operational condition simulation tests can be conducted on finished windshield products.
- Fire protection meets the requirements of EN 45545 standard.
- Can meet the application requirements of -40 °C -70 °C ambient temperature.
- The rubber vestibule diaphragm development platform has comprehensive capacity building and can provide windshield system solutions.



## RUBBER VESTIBULE DIAPHRAGM

### TYPICAL RUBBER WINDSHIELD TYPES ►►►



a CRH2 rubber inner windshield  
b CR400BF rubber outer windshield  
c Sanya City Outside Windshield  
d UAE diesel multiple unit external windshield

### PLEASE FILL THE TABLE BELOW FOR ANY ENQUIRE ►►►

Train type	<input type="checkbox"/> Intercity; <input type="checkbox"/> Regional; <input type="checkbox"/> Suburban; <input type="checkbox"/> Inner city; <input type="checkbox"/> High speed train; <input type="checkbox"/> other				
Maximum speed	km/h		Application area	Country/city	
Nominal length of Car-body	mm		Dimension of interface	mm	
Contact or non-contact type	/				