

Technical Data Sheet

Acrylic Foam Tape

#5371



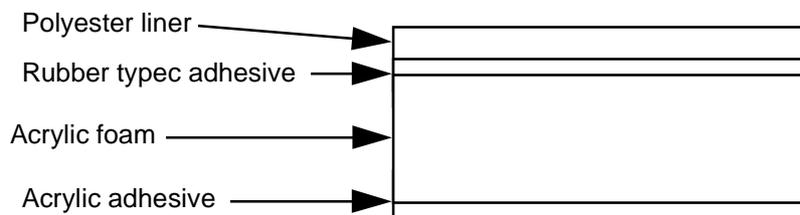
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General Information:

The rubber type adhesive of the Acrylic Foam Tape #5371 has a superior initial adhesion performance to Polypropylene (PP) and Polycarbonate (PC) etc. without any primer.

Features:

- Shows a high initial adhesion strength to PP and PC, etc. without any primer.
- Provides a good and tape application process because of no primer.
- Provides a clean working environment because of no primer.

Configuration:

Tapes:

Tape No.	Tape		Liner	
	Thickness (mm)	Color	Color	Material
#5370	0.2	Gray	Transparent	Polyester
#5371	0.4			
#5372	0.8			

Usage:

Protector pad to Cowl louver (PP), Weather-strip to Head lamp (PC), etc.

Test results:

Items		Substrates	#5371	#4215	#4215+K500
Thickness (mm)		-	0.4	0.4	0.4
180° Peeling Strength N/25mm (kgf/25mm)	Initial state	PP plate	30.4 (3.1)	3.9 (0.4)	17.6 (1.8)
	Normal state		32.3 (3.3)	5.9 (0.6)	32.3 (3.3)
	At high temperature		1.0 (0.1)	1.0 (0.1)	15.7 (1.6)
	Heat aging		9.8 (1.0)	4.9 (0.5)	36.3 (3.7)
	Warm water immersion		23.5 (2.4)	7.8 (0.8)	30.4 (3.1)
Shear strength MPa (kgf/c M ²)	Initial state	Painted plate and PP plate	0.68 (6.9)	0.34 (3.6)	0.65 (6.6)
	Normal state		0.78 (8.0)	0.40 (4.1)	0.81 (8.3)
	At high temperature		0.11 (1.1)	0.10 (1.0)	0.25 (2.6)
	Gasoline immersion		0.49 (5.0)	0.31 (3.2)	0.78 (8.0)
	Wax-remover immersion		0.46 (4.7)	0.26 (2.7)	0.71 (7.2)

* Painted panel: White color painted panel used on a vehicle.

* PP plate: Black color 3M standard PP panel used on a vehicle.

Test methods:

(1) Thickness: Measured by a dial thickness gauge (in accordance with JIS Z0237)

(2) 180° peel strength: Peel off the tape in 180° direction and measure the adhesion to the substrate with a tensile strength test machine after the exposures in the following conditions.

a) Initial state: 23°C x 20 min.

b) Normal state: 23°C x 24 hrs.

c) At high temperature: b) → at 80°C

d) Heat aging: b) → 80°C x 336 hrs. → b)

e) Warm water immersion: b) → 40°C water x 336 hrs. → b)

* Tape size: 25 mm width, * Rolling pressure: 5 kg roller one-way, * Peeling speed: 50 mm/min.

(3) Shear strength: Measure the strength needed to shear.

a),b),c): as same as the conditions of 180° peel strength

f) Gasoline immersion: b) → gasoline x 1 hr. → b)

g) Wax-remover immersion: b) → wax-remover x 1 hr. → b)

* Tape size: 10 mm x 25 mm, * Rolling pressure: 5 kg roller one-way, * Tensile speed: 50 mm/min.