



Technical Data Sheet

Acrylic Foam Tape RTA3000 Series

General Information:

The acrylic Foam Tape RTA3000 Series, which is made by a special process, has a superior adhesion performance and high flexibility. This tape is specially designed for exterior and interior parts attachments of automobiles. The Acrylic Foam Tape can work well on the Anti Acid Paint and Scratch Resistant Paint.

Features:

* To the Anti Acid Rain Paint and Scratch Resistant Paint surface

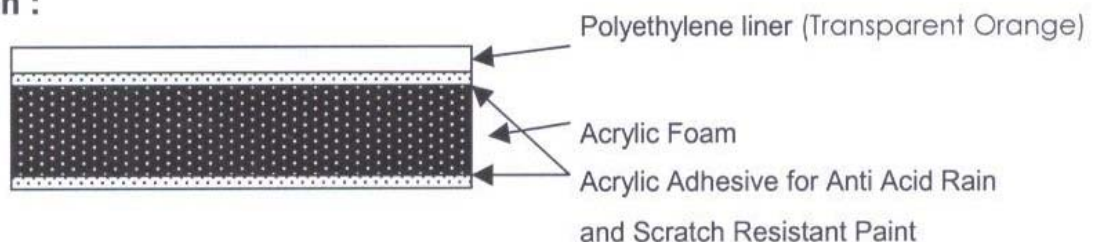
- Meets most of OEM specification on double sided pressure sensitive adhesive tape for exterior parts”, and has a superior initial adhesion performance and durability.
- Has the same workability as the standard type on the conventional paint.
- Doesn't detach from the paint surface because of a superior stress relaxation properties.
- Still has a superior adhesion performance on the conventional paint surface, and can be used for the same applications as the standard type acrylic foam tape.

*Follows the shrinkage and elongation of the plastic part caused by the temperature change, and has good stress relaxation properties which are very important for the automotive parts attachments.

*Provides a very high final adhesion and peeling strength.

*Excels in a variety of weather, solvent and high temperature resistance.

Configuration :



Product line:

Tape No	Tape		Liner	
	Thickness	Color	Color	Material
RTA3002	0.2mm	Gray	Transparent Orange	Polyethylene
RTA3004	0.4mm			
RTA3006	0.6mm			
RTA3008	0.8mm			
RTA3012	1.2mm			
RTA3016	1.6mm			
RTA3020	2.0mm			
RTA3025	2.5mm			
RTA3030	3.0mm	White		
RTA3035	3.5mm			
RTA3040	4.0mm			

Usage: Several kinds of parts attachment,

i.e. Body side molding, Emblem, Cladding panel, and Spoiler etc.

Test results:

Items		Substrates	RTA3008	#4212
Thickness (mm)		-	0.8	
180° Peeling Strength (N/cm)	Initial	AARPP	12.1	9.4
		PVC	17.9	14.5
	Normal state	AARPP	14.3	12.6
		PVC	17.9	14.9
	High temperature	AARPP	6.1	7.8
		PVC	8.8	8.2
	Warm water Deterioration	AARPP	17.5	15.3
		PVC	15.7	14.1
	Heat aging	AARPP	20.9	17.6
		PVC	16.7	13.7

* AARPP: Anti Acid Rain Painted Panel.

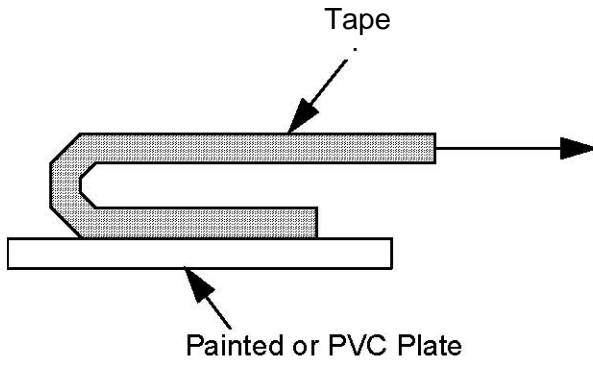
* PVC: Polyvinyl Chloride Panel

<Test methods>

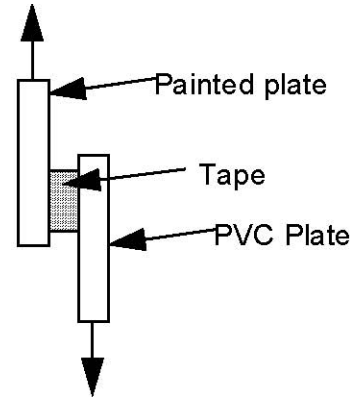
(1) Thickness: Measured by the dial thickness gauge

(2) Adhesion performance:

180° peel strength



Shear strength



Items		RTA3002	RTA3004	RT3006	RTA3008	RTA3012	RTA3016	
Thickness (mm)		0.2	0.4	0.6	0.8	1.2	1.6	
180° Peeling Strength (N/cm)	Initial	AARPP	6.3	8.7	10.7	12.7	13.5	14.3
		PVC	13.6	15.0	16.6	17.7	18.6	18.9
	Normal State	AARPP	6.9	9.2	12.1	13.8	14.7	15.9
		PVC	12.8	14.5	16.4	17.8	18.9	18.9
	High Temperature	AARPP	2.7	4.1	5.2	5.8	6.4	6.7
		PVC	5.2	6.7	8.1	8.9	9.1	9.9
	Warm water Deterioration	AARPP	9.7	13.4	16.1	17.0	19.0	20.6
		PVC	5.8	11.3	13.9	15.8	17.1	17.8
	Thermal Deterioration	AARPP	10.5	15.7	19.0	21.3	22.9	23.8
		PVC	5.3	7.1	10.7	16.7	17.1	17.5
Shear Strength (Mpa)	Initial	AARPP / PVC	0.92	0.87	0.79	0.65	0.57	0.46
	Normal State		0.91	0.89	0.83	0.68	0.59	0.47
	High Temperature		0.22	0.23	0.24	0.23	0.21	0.17
	Warm water Deterioration		0.62	0.58	0.51	0.45	0.39	0.36
	Thermal Deterioration		0.89	0.90	0.80	0.75	0.66	0.56
	Immersion In gasoline		0.66	0.63	0.57	0.47	0.38	0.32

Items			RTA3020	RTA3025	RTA3030	RTA3035	RTA3040
Thickness (mm)			2.0	2.5	3.0	3.5	4.0
180° Peeling Strength (N/cm)	Initial	AARPP	15.0	16.3	17.9	19.4	20.4
		PVC	19.4	20.2	20.9	21.7	22.3
	Normal State	AARPP	17.7	19.9	21.6	22.7	23.2
		PVC	19.4	20.3	20.9	21.7	22.2
	High Temperature	AARPP	7.0	7.4	7.9	8.2	8.5
		PVC	10.4	10.6	10.7	10.5	10.6
	Warm water Deterioration	AARPP	22.0	23.2	23.8	24.5	25.2
		PVC	18.6	18.9	19.8	20.8	23.6
	Thermal Deterioration	AARPP	24.5	25.2	25.9	26.8	27.2
		PVC	17.8	18.9	20.3	22.2	24.0
Shear Strength (Mpa)	Initial	AARPP / PVC	0.41	0.36	0.34	0.32	0.32
	Normal State		0.41	0.36	0.34	0.33	0.32
	High Temperature		0.14	0.12	0.11	0.10	0.10
	Warm water Deterioration		0.33	0.31	0.30	0.29	0.29
	Thermal Deterioration		0.50	0.46	0.44	0.42	0.41
	Immersion In gasoline		0.28	0.27	0.25	0.24	0.23