



SANHO CHEMICAL CO., LTD.

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TOHMIDE TXA-254B

TOHMIDE TXA-254B is a high molecular weight polyamide resin especially designed for hot melt-adhesive use. This resin has the characteristics of high softening point, and high molten viscosity so that it is suitable for applications where high heat resistance 、 high creep strength 、 high adhesive strength required and it is especially application for low pressure moulding 。

1. TYPICAL SPECIFICATIONS

Appearance	: Brown pellet solid.
Viscosity (mPas / 200°C)	: 3,500 ~ 5,500
Color (Gardner)	: 10 MAX.
Softening Point (°C)	: 155 ± 5
Acid Value (mg-KOH / gm)	: 10 MAX.
Amine Value (mg-KOH / gm)	: 1 MAX.
Specific Gravity (25/25°C)	: 1.07
Flash Point (°C)	: >320

2. SHORE-A HARDNESS

Measured Temperature °C	Shore-A Hardness
0	96
20	92
40	86
60	75
80	62
100	49
120	28

Remark : Measure shore –A hardness after storing one hour at each measuring Temperature

3. PHYSICAL PROPERTIES (MECHANICAL STRENGTH)

Tensile Strength	: >4MPa	(ASTM D1708)
Elongation at break	: >190%	(ASTM D1708)
Water Absorption	: 0.6%	

Remark : Determined at speed of 10mm/min at 23°C

4. TENSILE SHEAR STRENGTH

Material	Tensile Shear strength (MPa)
Steel / Steel	6.4
Aluminium / Aluminium	5.3

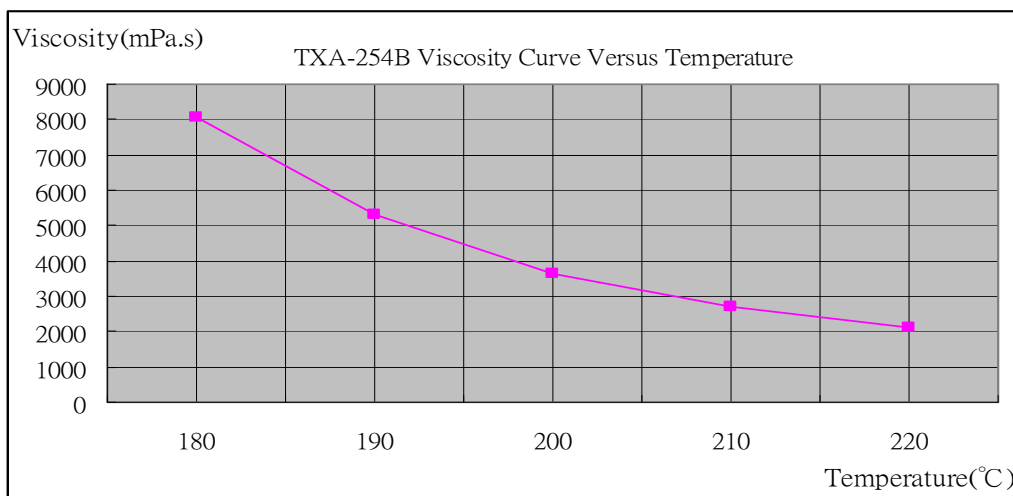
Remark : Determined at speed of 2mm/min at 23°C

5. PEEL STRENGTH

Material	Peel Strength (N/mm)
Steel / Aluminium	2.6
Aluminium / Aluminium	2.6

Remark : Determined at speed of 100mm/min at 23°C

6. VISCOSITY CURVE VERSUS TEMPERATURE



7. APPLICATION TEMPERATURE

180 °C ~ 200 °C

8. SOFTNESS AT COLD TEMPERATURE

Measure Temp	-10°C	-20°C	-30°C	-40°C
Broken No./Number No.	10/10	10/10	9/10	0/10

Remark : 180 degree bending test at specified temperature ,the check broken test piece number

9. CHEMICAL RESISTANCE

Immersion time (days)	1day	3day	7day
Tap Water	1.4	2.4	3.2
5% solution of Salt	1.2	2.1	2.7
5% solution of Sulphuric Acid	1.4	2.4	3.1
5% solution of Hydrochloric	1.4	2.4	3.6
10% solution of Caustic soda	1.1	1.8	2.3
10% solution of Ammonia Acid	2.1	3.7	5.3
Kerocene	6.5	11.6	17.7

Test size 150mm(length) x 10mm(thickness) , immersing into following chemical substances

10. PACKAGING

20 kg net, paper bag.

11. STOREGE CONDITIONS

Store in fireproof construction which equipped with necessary facilities such as light and ventilation do not make resin- pellet contaminate with high humidity and water do not store in the direct sunlight and hot place Use a container of an anti-static materials