

Low Density LIMS

(Liquid Silicone Rubber Injection Molding System)

X-34-4347-A/B, X-34-4352-A/B

Low-density, lightweight LIMS



Superior to conventional silicone rubber in low density and low thermal conductivity

Applications Rubber parts that are required to be lighter, such as transport aircraft and wearable parts



General properties

Features

Grade		Low density, High strength		Low density	
Parameter Product name		X-34-4347-A/B		X-34-4352-A/B	
Appearance		Reddish brown		Reddish brown	
Viscosity 0.9s-1 Pa·s		A: 223/B: 226		A: 248/B: 265	
Curing speed at 130°C MDR s	T10	34		32	
	Т90	65		55	
Standard molding condition (Injection molding)	Primary cure	140°C x 35 s	140°C x 35 s	140°C x 30 s	140°C x 30 s
	Post cure	No need	150°C x 1 h	No need	150°C x 1 h
Hardness Durometer A		38	40	34	38
Density g/cm ³		0.90	0.94	0.47	0.63
Linear shrinkage %		2.0	3.0	-7.0*	4.0
Tensile strength MPa		5.5	5.4	1.6	2.2
Elongation at break %		600	560	500	630
Tear strength Crescent kN/m		9	9	6	6
Compression set 150°C x 22 h %		20	15	_	_

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Molding with low density liquid silicone rubber



Handling precautions

- 1. Seal container tightly and store in a cool, dark place (25°C or below, out of direct sunlight) with good ventilation. Keep away from heat and flame because the primers used may be classified as flammable hazardous materials.
- 2. LIMS liquid silicone rubbers may not cure properly if they come in contact with certain substances, including amines, sulfur, organophosphorus compounds and organotin compounds. If there is a possibility of curing inhibition, the user should perform a test to determine whether the product will cure properly.

Some curing inhibitors

- Chloroprene and other synthetic rubbers
 Amine-cure epoxies
- Sulfur compounds
- Soft PVC

- - PVC insulating tape
 - Soldering flux that contains rosin
- 3. Mixing Liquid B with alkaline substances produces flammable hydrogen gas, so handle with caution.

Safety and hygiene

- 1. This product causes serious eye irritation and may cause skin irritation. When handling the product, be sure to avoid contact with the skin and mucous membranes by wearing protective glasses and protective gloves. In case of skin contact, immediately wipe off with dry cloth and then flush thoroughly with running water. In case of accidental eye contact, flush immediately with plenty of clean water for at least 15 minutes and then seek medical attention. Contact lens wearers must take special care. If the products get into the eye, the contact lens may become stuck to the eye.
- 2. In aconfined space with poor ventilation, please wear a protective mask. It is recommended to provide local ventilation. If vapors are inhaled and victims feel uncomfortable, move immediately to an area with fresh air. When you put non-hardening substance into the discard, silica and other powder generate. So you should wear a protective mask.
- 3. Keep out of reach of children.
- 4. Please read the Safety Data Sheets (SDS) before use. SDS can be obtained from our Sales Department.

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. Users are solely responsible for making preliminary tests to determine the suitability of products for their intended use. Statements concerning possible or suggested uses made herein may not be relied upon, or be construed, as a guaranty of no patent infringement.

. For detailed information regarding safety, please refer to the Safety Data Sheet (SDS)

•The silicone products described herein have been designed, manufactured and developed solely for general industrial use only; such silicone products are not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the



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