

Document number :

Client name : _____

Specifications

1. Objective of this document
2. Scope
3. Product usage, model names
4. Properties
5. Inspections
6. Packaging
7. Lot definition
8. Storage condition
9. Process change
10. Revision control

Product name : ASA COLOR Light diffusion cap
A-29038L-KC series / A-48068L-KC series

Client				
Document received date:				
Department				
Signature				

Manufacturer	Asahi Rubber Inc. Issued Dec. 20, 2004			
Quality Control	Production	Sales	Engineering	Created by

1. Objective

This document is created to ensure smooth trading products, of which specifications are described below, between Asahi Rubber Inc. (hereinafter called **ASAHI**) and XXXXXXXX (hereinafter called **CLIENT**).

2. Scope

This specification provides technical information on the following lighting diffusion caps (hereinafter called **PRODUCT**), which are manufactured by ASAHI to be delivered to CLIENT.

PRODUCT: Lighting diffusion caps of A-29038L-KC series / A-48068L-KC series

3. Product usage, model names

3-1 Intended usage

PRODUCT are silicone rubber caps designed to be used as lighting components.

3-2 Model names

A-29038L-KC-XX

A-48068L-KC-XX XX are for compound control

4. Properties

4-1 Material quality

> No abnormality after the flowing test such as cracks, significant color shift, loss of transparency

High temperature 180°C / 5,000Hr

Low temperature -50°C / 5,000Hr

Ozone concentration 10ppm / 100Hr

> Residue of dimethylpolysiloxane (D4 ~ D10)
50ppm max.

4-2 General properties

		Unit	Spec.	Standard
Physical Strength	Hardness	---	72±5	JIS K 6253 (Type A)
	Tensile strength	MPa	6.1 min.	JIS K 6251
	Elongation at break	%	150 min.	JIS K 6251
	Tear strength	N/mm	3min.	JIS K 6252 (Crescent piece)
Inflammability		UL94HB (QMFZ2.E62403)		

4-3 Optical performance

Model	Diffusivity	Transparency (%)		
		Overall	Diffusion	Parallel
KC	Low	80% min. (85.9%)	(81.3%)	(4.6%)
KC-D	High	60% min. (72.7%)	(71.4%)	(1.3%)
KC-D2	High	55% min. (68.7%)	(67.9%)	(0.8%)

Test piece: t 0.3mm, matte finish, (typical value)

5. Inspection

5-1 Color tone

General control item: Visual inspection with (a) limit sample(s) per each lot.

Category	General control item
Method	Visual inspection with light
Acceptance level*	Limit sample: n=1, Sample from a lot: n=1
Criteria	Comparison against the limit sample.

*Quantity is subject to change after a discussion between the two parties.

5-2 Appearance: No significant blots, scratches, cracks that disturb product function.

Burr: Equal to or smaller than 0.5mm gage. A limit sample can be prepared if needed.

Foreign material: Equal to or smaller than SIZE 0.7 of foreign substance gaging chart

5-3 Size and shape: Visual inspection with a limit sample per each lot.

6. Packaging

To be defined.

7. Lot definition

In principle, one lot is composed of one batch of production (from the same kneader, tooling and molding press).

8. Storage

8-1 Warranty period: Six months from the shipping date for unopened boxes.

8-2 Caution: Store the products at room temperature. Avoid long term storage with external pressures over PRODUCT which may suffer deformation.

9. Process change

Process changes which have impacts on PRODUCT shall need an acceptance by the CLIENT.

10. Revision control

In case a question arises about this document or in case a need arises to amend this document, both parties (ASAHI and CLIENT) shall discuss to reach a conclusion.

Revision records

#	Note	Date	Approval	Revised by