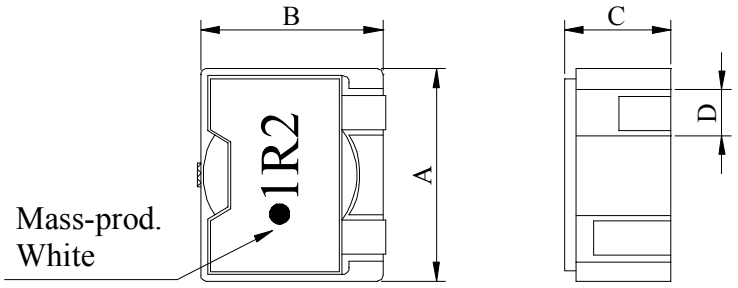
SPECIFICATION FOR APPROVAL

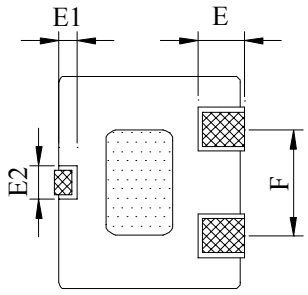
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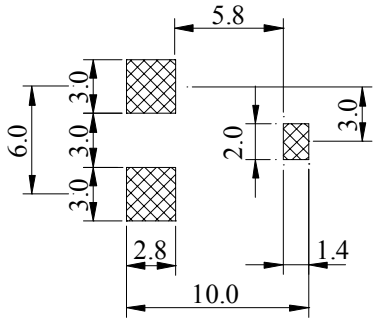
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	SP1055□□□□3□-□□□
		ABC'S ITEM No.	

Ⅰ．MECHANICAL DIMENSIONS：

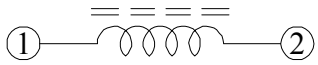


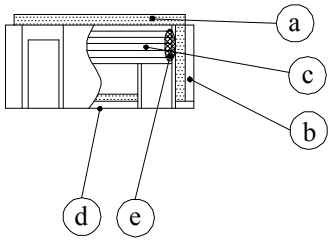
A ： 11.00±0.30 m/m
B ： 9.35±0.30 m/m
C ： 5.50±0.30 m/m
D ： 2.10 typ. m/m
E ： 2.00 typ. m/m
E1: 1.00 typ. m/m
E2: 1.50 typ. m/m
F ： 6.00 typ. m/m





Ⅱ．SCHEMATIC DIAGRAM：

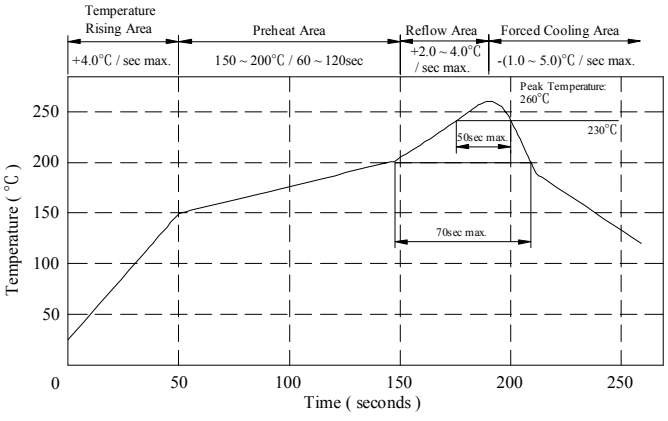




Ⅲ．MATERIALS LIST：

a．Core：Ferrite ER core
b．Base：UL 94V-0
c．Wire：Ultra-fine rectangular Enamelled copper wire
d．Clip：Cu / Ni / Sn
e．Adhesive：Epoxy resin
f．Remark：Products comply with RoHS' requirements

Peak Temp：260℃ max.
Max time above 230℃ ：50sec max.
Max time above 200℃ ：70sec max.



Ⅳ．GENERAL SPECIFICATION：

a．Storage temp.：-55℃ ~ +135℃
b．Operating temp .：-55℃ ~ +135℃ (Temp. rise included)
c．Resistance to solder heat：260℃. 10 secs.

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SPECIFICATION FOR APPROVAL

REF :

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		ABC'S ITEM No.	

Ⅴ . ELECTRICAL CHARACTERISTICS：

DWG No.	Inductance L (μH)	Ipk (A) max.	Isat (A)	Irms (A)	RDC (mΩ)	
					max.	typ.
SP1055R15Y3□-□□□	0.15 ± 30 %	62.0	38.0	24.0	1.7	1.3
SP1055R30M3□-□□□	0.30 ± 20 %	42.0	32.0	20.0	2.5	1.9
SP1055R50M3□-□□□	0.50 ± 20 %	32.0	25.0	16.0	3.2	2.4
SP1055R80M3□-□□□	0.80 ± 20 %	25.0	18.0	11.0	5.8	4.7
SP10551R2M3□-□□□	1.20 ± 20 %	20.0	16.0	10.0	7.2	5.6
SP10551R5M3□-□□□	1.50 ± 20 %	17.0	14.0	9.0	8.5	6.5
SP10552R0M3□-□□□	2.00 ± 20 %	14.0	11.0	7.6	13.2	10.7
SP10552R5M3□-□□□	2.50 ± 20 %	12.0	9.5	6.8	15.5	11.9
SP10553R0M3□-□□□	3.00 ± 20 %	10.5	8.2	6.0	17.2	13.2

1). □：Packaging information …[A]：Bulk [B]：Taping Reel

2). "-□□□ ":Reference code

3). Measured frequency of inductance is 100 KHz / 1V

4). Ipk base on inductance drop 25% typ. of L value at 20℃

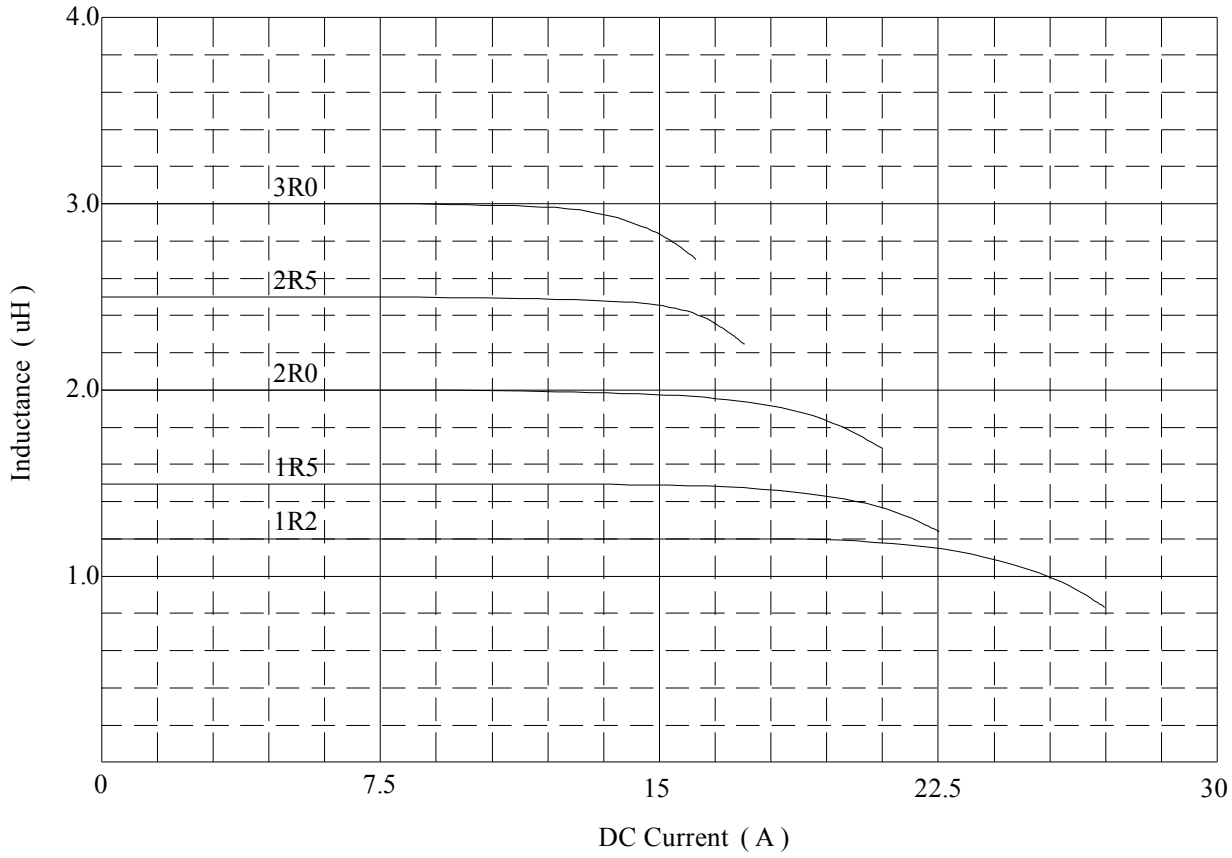
5). Isat base on inductance drop 10% typ. of L value at 20℃

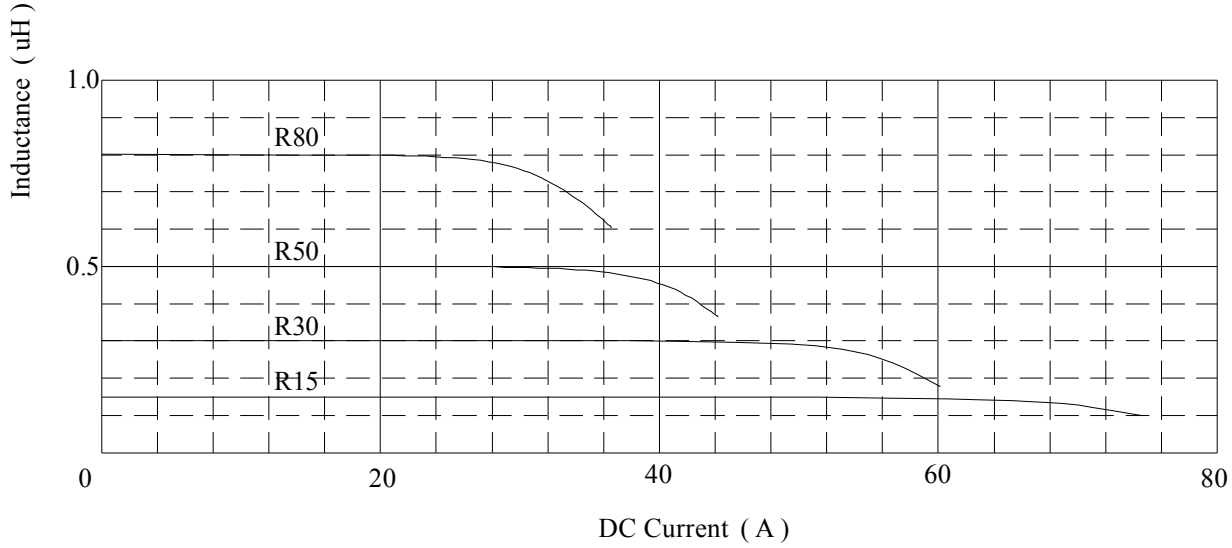
6). Irms base on temp. rise 40℃ max.

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	SP1055□□□□3□-□□□
		ABC'S ITEM No.	

@ Inductance VS. DC Superposition characteristics



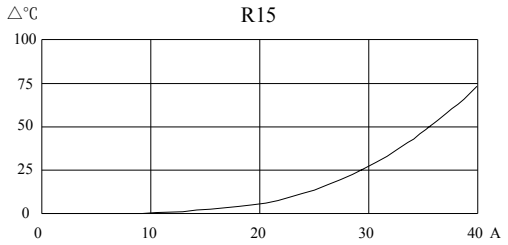


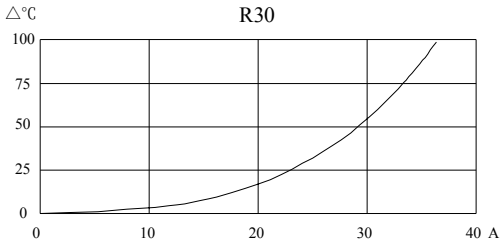
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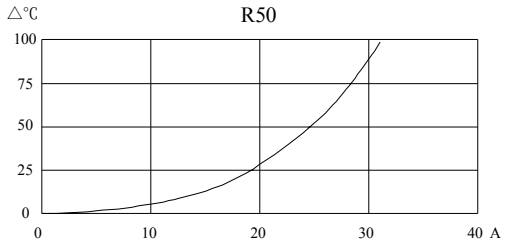
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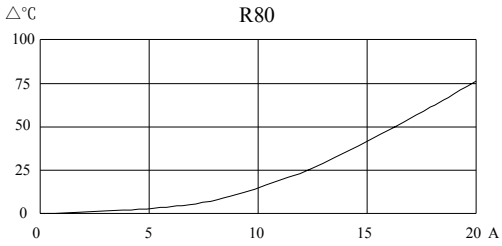
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	SP1055□□□□3□-□□□
		ABC'S ITEM No.	

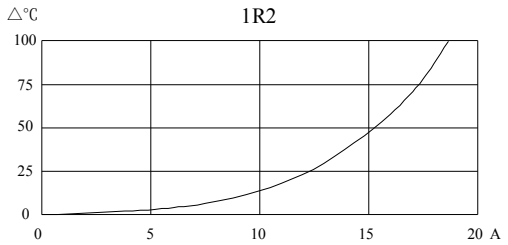
@ DC Current VS Temperature Rise

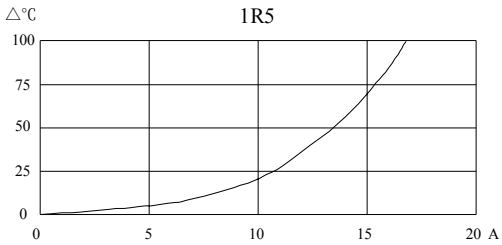


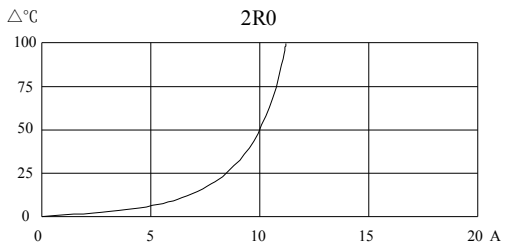


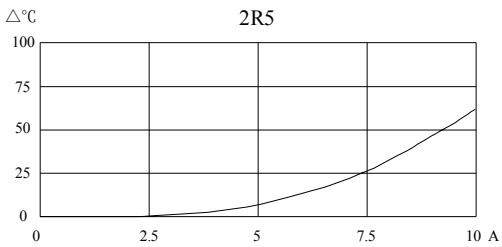


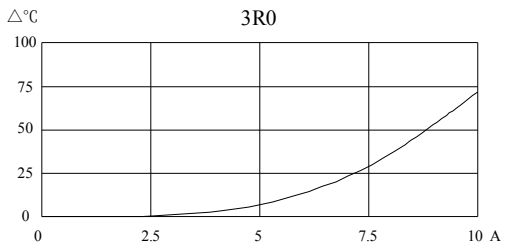












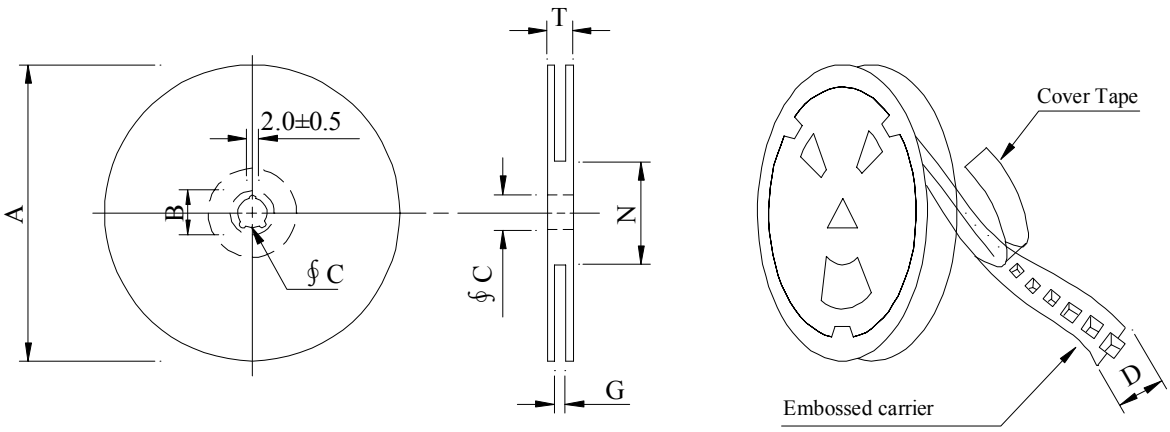
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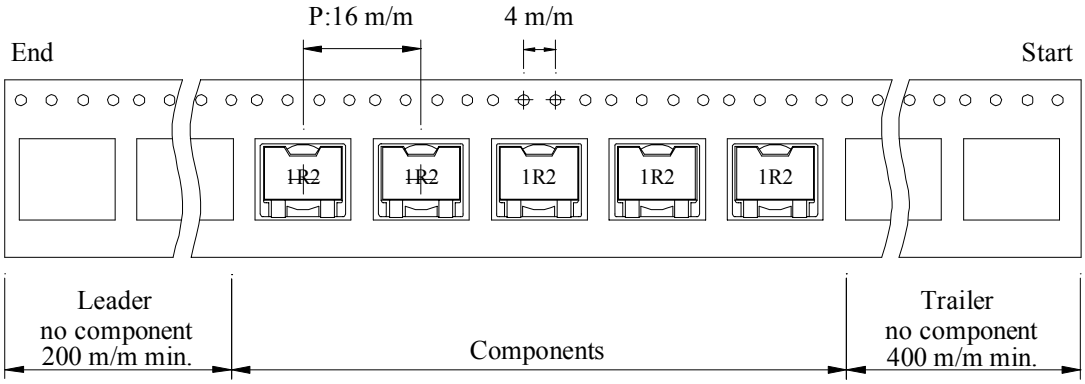
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	SP1055□□□□3□-□□□
		ABC'S ITEM No.	

Ⅶ. PACKAGING INFORMATION：

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13±0.5	24	26^{+0}	50^{-0}	30.4

(3) Q'TY & G.W. Per package

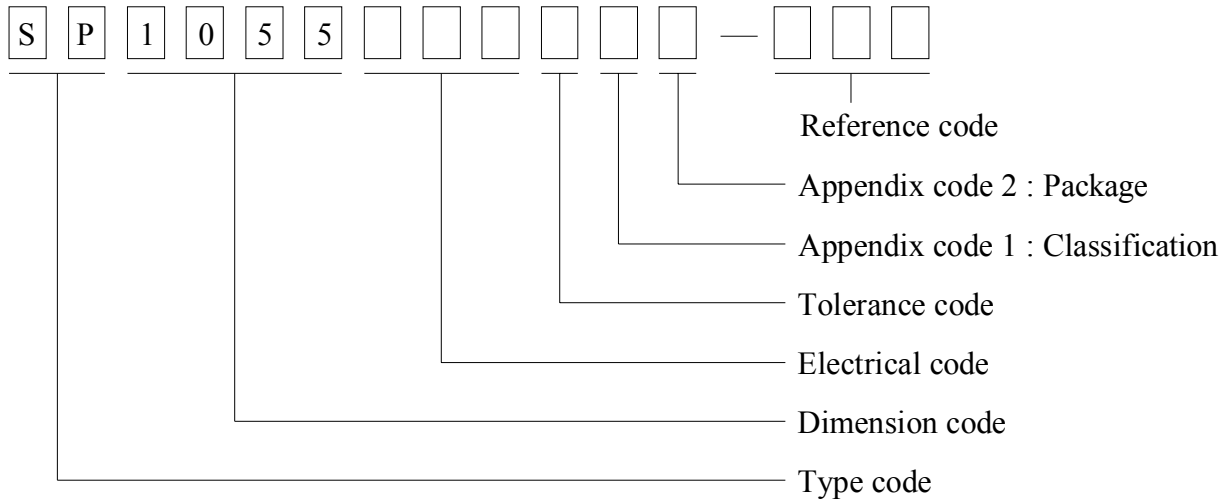
Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SP1055	600	700	13 - 24	2,400	6.50	40 x 40 x 24

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		ABC'S ITEM No.	

Ⅶ．DWGING NUMBER EXPRESSION：



Appendix code 1：Product Classification

L：Lead Free Standard products comply with RoHS' requirements

1 ~ 9：Lead Free Special products comply with RoHS' requirements

Appendix code 2：Package Information

Code	Inner package	Inner package Q'TY	Remark
A	T.B.D.	T.B.D.	
B	T / R (Reel package)	600 pcs	

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		ABC'S ITEM No.	

Ⅷ . RELIABILITY TEST :

Test item	Specification	Test condition
Solderability	More than 90% of the terminal electrode Shall be covered With fresh solder.	Preheat : 150±25°C for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 4±1 seconds
Thermal shock test (Temp. cycle)	Inductance shall not change more than ±20%	Room temp. / 15 minutes → -25±2 °C / 30 minutes Room temp. / 15 minutes → 85±2 °C / 30 minutes Total : 50 cycles
Humidity Resistance test		Temperature : 40±2°C Humidity : 90～95% Applied current : Per spec. Time : 500 hours
High temp. Resistance test		Temperature : 85±2°C Applied current : Per spec. Time : 500 hours

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	SP1055□□□□3□-□□□
		ABC'S ITEM No.	

Ⅸ . UL CARD :

OBMW2 January 7, 1988

Component-Magnet Wire

E104048 (S)

MITSUBISHI CABLE INDUSTRIES LTD
4-3 IKEJIRI ITAMI , HYOGO 664 JAPAN

Mtl		Coat Typ	ANSI	Temp
Dsg	BC	Oyercoat	Type	Class
EDW-R52	Medis	Ester-imide	——	155

Marking : Company name and type designation on package or reels.

See General Information Preceding These Recognitions.

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Report : January 5, 1988.

302279005 H7642 Underwriters Laboratories Inc.® D11/0149909

QMFZ2 August 31, 2002

Plastics-Component

E91944

NIPPON PETROCHEMICALS CO LTD

Mterial Dsg	Color	Min Thk mm	Flame Class	H W I	H A I	RTI Elec	RTI Mech Imp	RTI Mech Slr	H V T R	D 4 9 5	C T I
Liquid Crystal Polyester (LCP), glass filled, furnished as pellets.											
HM-402	NC , BK	0.30	V-0	——	——	130	130	130	——	——	——

(a)-Virgin and Regrind up to 50% have the same basic characteristics.
r1-Virgin and Regrind from 1 to 50% by weight incl. have the same Flame characleristics, Tensile Impact, Tensile Strength and Heat Deflection in natural color only.
r2-Virgin and Regrind from 26-50% by weight inclusive for the colors NC, and BK liave the same Flame, and Tensile Impact characteristics.
r3-Virgin and Regrind from 26-50% by weight inclusive have the same Flame and Tensile lmpact characteristics.

Marking : Company name or trademark 新日本石油化學株式會社 and material designation on container, wrapper or finished part.

10/15/2002 Underwriters Laboratories Inc. Card 8 of 9

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