

DDODLICT/DDOCESS CHANCE NOTICE (DCN)

PRODUCT/PROCESS C	CHANGE NUTICE (PCN)			
PCN #: G-0203-05 Product Affected: All applicable plastic package (except BGA) families Date Effective: 6/28/2002	MEANS OF DISTINGUISHING CHANGED DEVICES: □ Product Mark □ Back Mark □ Date Code ■ Other Alpha suffix "F" in assembly lot number			
0, 20, 2002				
Contact: Geoffrey Cortes Title: Manager, Corporate Quality & Reliability Phone #: (408) 492-8321 Fax #: (408) 727-2328 E-mail: Geoffrey.Cortes@idt.com	Attachment:: Yes Sumitomo material datasheet Samples: Contact the local IDT sales representative			
DESCRIPTION AND PURPOSE OF CHANGE:				
	l, EME-6600H manufactured by Sumitomo. Once qualified, mold compound on all applicable plastic package (except			
RELIABILITY/QUALIFICATION SUMMARY: Qualification testing will verify that there is no change to the product reliability. Qualification data is available upon request.				
CUSTOMER ACKNOWLEDGMENT OF RECEIPT: IDT records indicate that you require written notification of thi to grant approval or request additional information. If IDT doe it will be assumed that this change is acceptable. IDT reserves the right to ship either version manufactured afte on the earlier version has been depleted.	s not receive acknowledgement within 30 days of this notice			
Customer:	☐ Approval for shipments prior to effective date.			
Name/Date:	E-Mail Address:			
Title:	Phone# /Fax# :			
CUSTOMER COMMENTS:				
IDT A CVNOWI EDCMENT OF DECEMP.				
IDT ACKNOWLEDGMENT OF RECEIPT:				
RECD. BY:	DATE:			



Integrated Device Technology, Inc. 2975 Stender Way, Santa Clara, CA - 95054

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ATTACHMENT - PCN #: G-0203-05

PCN Type: To qualify new mold compound from Sumitomo EME-6600H.

Data Sheet Change: No

Detail Of Change: This change will be implemented on all applicable plastic package (except BGA) families.

Description	From	То
Mold Compound	Sumitomo	Sumitomo
	6300 Series	EME-6600H

Conversion schedule (Estimated):

Please contact your local field sales representative for sample availability and production shipments.



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Qualification Plan: Following reliability tests will be performed per package family and the expected completion

date is June 28, 2002. Qualification data is available upon request.

	Test Methods	Sample size /# Fails
Highly Accelerated Stress Test (HAST) (100 Hrs, @130°C/85%RH,Static Bias)	EIA/JESD22-A110	45/0
Temperature Cycling, (-65°C to +150°C, 500 cyc)	MIL-STD-883, Method 1010	45/0
Life Test, (+125°C, 1000 hrs)	MIL-STD-883, Method 1005	77/0
Hi Temp Bake, (+150°C, 1000 hrs)	MIL-STD-883, Method 1008	77/0
Auto Clave (SPP), (168Hrs, @ 2ATM, 121°C)	EIA/JESD22-A102	45/0
Package Moisture Characterization (Note 1)	JEDEC J-STD-20	22/0
Internal Visual Inspection	MIL-STD-883, Method 2010	5/0
External Visual Inspection	MIL-STD-883, Method 2009	25/0
S.A.T.	JEDEC J-STD-035	10/0
X-ray Examination	Per IDT specification	45/0
Bond Pull Test	MIL-STD-883, Method 2011	5/0
Solderability Test	MIL-STD-883, Method 2003	5/0
Bake & Ball Shear Test	EIA/JESD22-B116	5/0
Physical Dimension	MIL-STD-883, Method 2016	5/0
Lead Integrity Test	MIL-STD-883, Method 2004	3/0
Resistance to Solvents	MIL-STD-883, Method 2015	3/0

Note 1: Moisture Characterization will confirm that there is no change to the Moisture Sensitivity Level.

SUMITOMO BAKELITE SUMIKON®

EME-6600H

DCPD RESIN BASE VERY LOW STRESS NON/SHORT PMC HIGH RELIABILITY

EME-6600H

TYPICAL PROPERTIES:

<u>ITEM</u>	TEST METHOD	<u>UNIT</u>	<u>VALUES</u>
SPIRAL FLOW	SB-U-03-003	cm	90
GEL TIME (at 175°C)	SB-U-03-005	sec	30
THERMAL EXPANSION ∞1	SB-U-02-002	X 10 ⁻⁵ 1/°C	0.8
THERMAL EXPANSION ∞2	SB-U-02-002	X 10 ⁻⁵ 1/°C	3.4
Tg	SB-U-02-002	°C	150
THERMAL CONDUCTIVITY	SB-U-02-004	W/m •°C	92×10^{-2}
FLEXURAL STRENGTH	SB-U-01-001	N/mm^2	
(at 25°C)			170
(at 240°C)			22
FLEXURAL MODULUS	SB-U-01-002	$X 10^2 \text{ N/mm}^2$	
(at 25°c)			270
(at 240°C)			9.5
SPECIFIC GRAVITY	SB-U-03-018		2.01
VOLUME RESISTIVITY	SB-U-00-004	Ω - cm	1.0×10^{13}
(at 150°c)			
UL FLAME CLASS	SB-U-03-003	UL-94	V-0
WATER ABSORPTION	SB-U-03-002	% weight gain	0.12
(boiling, 24 h)			
EXTRACTED Na ⁺	SB-U-04-043	ppm	1
EXTRACTED CI	SB-U-04-043	ppm	5
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TYPICAL, NOT GUARANTEED PROPERTIES

MOLDING AND POST MOLD CURE CONDITIONS:

<u>STANDARD</u>	<u>RANGE</u>
$85 \times 10^{6} \text{ Pa}$	$70-120 \times 10^6 \text{ Pa}$
175°C	165-180°C
C/100 sec	80-120 sec
175°C	170-180°C
2 h	0-8 h
	85 x10 ⁶ Pa 175°C C/100 sec 175°C

#Conventional or Auto rev. Nov. '00

