



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

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	To
Mold Compound	Sumitomo 6300 Series	Sumitomo 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>	<u>TEST METHOD</u>	<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 α_1	SB-U-02-002	X 10 ⁻⁵ 1/°C	0.8
THERMAL EXPANSION α_2	SB-U-02-002	X 10 ⁻⁵ 1/°C	3.4
T _g	SB-U-02-002	°C	150
THERMAL CONDUCTIVITY	SB-U-02-004	W/m •°C	92 x 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 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 x 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 Cl ⁻	SB-U-04-043	ppm	5

TYPICAL, NOT GUARANTEED PROPERTIES

MOLDING AND POST MOLD CURE CONDITIONS:

	<u>STANDARD</u>	<u>RANGE</u>
TRANSFER PRESSURE	85 x 10 ⁶ Pa	70-120 x 10 ⁶ Pa
MOLD TEMPERATURE	175°C	165-180°C
CURE TIME (C or A)#	C/100 sec	80-120 sec
POST-MOLD CURE TEMP	175°C	170-180°C
POST-MOLD CURE TIME	2 h	0-8 h

#Conventional or Auto

rev. Nov.'00

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