

CPMT Formable H/C Specification

1. Outline

CPMT Formable H/C for 2-Layer(on PMMA) has excellent formability and thermal property.
Plus, the H/C can be conducted using R2R equipment, It can be applied various device which is needed protection and post forming.

2. Properties of Formable H/C on 2-Layer(PC/PMMA)

Properties	Test Method	Value	Result			GEN 3 Target	Remark
			FD-43	FD-72	FD-149		
Substrate		2-Layer	Bare thickness : 500 - 800 μ m			-	
Coating thickness		20 μ m	20 μ m	20 μ m	20 μ m	20 μ m	H/C on PMMA layer
Coating methods		Slot-Die, M/G	Slot-Die, M/G	Slot-Die, M/G	Slot-Die, M/G	R2R	R2R
Cross-cut test	K5600 -5-6	100/100	Pass	Pass	Pass	Pass	
Transmittance	JIS K-7361-1	> 90%	90,72%	90,61%	90,44%	> 90%	Haze meter
Haze	JIS K-7136	<1,0%	0,65%	0,68%	0,62%	<1,0%	Haze meter
Yellow index(YI)	JIS Z-8722	<1,0	0,51	0,51	0,53	<1,0%	Spectrophotometer
Pencil hardness	K5600 1kgf	> 4H	4 - 6H	4 - 7H	4 - 7H	6 - 7H	H/C side
Anti-abrasion	ASTM D1044	> 30 cycles (No scratch)	50 - 100 cycles (No scratch)	50 - 100 cycles (No scratch)	50 - 100 cycles (No scratch)	> 5,000 cycles (No scratch)	Steel wool #0000, 1,5kgf(1cm x 1cm)
Formability	CPMT	< 20R	12R Pass	14R Pass	20R Pass	< 5R	(CPMT Forming machine)
Chemical resistance	ASTM D1308	Pass	Pass	Pass	Pass	Pass	
Contact angle(H ₂ O)	ASTM D5946	> 100°	95°	101°	102°	> 115°	H/C layer