

CPMT Rigid H/C Specification

1. Outline

CPMT Rigid H/C makes outer surface layer more tough, Therefore it has super abrasion resistance property.

"R-series of CPMT" generally used post-coating system such as flow, dipping, spray coating.

2. Properties of Rigid H/C on PMMA

Properties	Test Method	Value	Result			GEN 2 Target	Remark
			R-36	R-72	R-117		
Substrate		PMMA	Bare thickness : 100 ~ 800 μ m			-	Customer needs
Coating thickness		1 ~ 20 μ m	10 μ m	10 μ m	10 μ m	10 μ m	
Coating methods		Spray, Dipping, Flow	Dipping, Flow	Dipping, Flow	Dipping, Flow	Spray, Dipping, Flow	
Cross-cut test	K5600 -5-6	100/100	Pass	Pass	Pass	Pass	
Transmittance	JIS K-7361-1	> 90%	90,34%	90,52%	90,76%	> 90%	Haze meter
Haze	JIS K-7136	< 1,0%	0,44%	0,42%	0,47%	< 1,0%	Haze meter
Yellow index(YI)	JIS Z-8722	< 1,0	0,51	0,54	0,52	< 1,0%	Spectrophotometer
Pencil hardness	K5600 1kgf	> 4H	6H	4H	3H	> 6H	H/C side
Anti-abrasion	ASTM D1044	> 100 cycles (No scratch)	100 cycles (No scratch)	100 cycles (No scratch)	300 cycles (No scratch)	> 5,000 cycles (No scratch)	Steel wool #0000, 1,5kgf(1cm x 1cm)
Chemical resistance	ASTM D1308	Pass	Pass	Pass	Pass	Pass	
Contact angle(H ₂ O)	ASTM D5946	100°	95°	95°	105°	> 115°	H/C layer

Reference ONLY FOR ATEM FAIR 2020
Contact us if you need Technical Data Sheet