



Polyopt[®] Polycarbonate Film & Sheet **OM81**

- ◇ Color: higher transparent
- ◇ Function: single-side hard coated
- ◇ Protective film: PE films on double sides
- ◇ Thickness: 0.125mm~6.0mm
- ◇ Common roll thickness: 0.125mm, 0.175mm, 0.25mm, 0.375mm and 0.5mm
- ◇ Common sheet thickness: 0.5mm, 0.64mm, 0.8mm, 1.0mm, 1.5mm, 2.0mm and 3.0mm
- ◇ Application: mobile display, tempered film lining board and cellphone leather sheath, etc.

Product Datasheet

	Property	Standard Value	Unit	Test condition	Test standard
Optical Properties	Haze	<0.5	%	-	ASTM D1003
	Transmittance	≥90	%	-	ASTM D1003
	Density	1.2	g/cm ³	-	ISO 1183
	Pencil Hardness	HB~H	-	1000g	ASTM D3363
Physical Properties	Abrasion Resistance	No Damage	-	0000# steel wool, with 250g/cm ² pressure, 5cm stroke reciprocating 25 times	-
	Hot Water Resistance	No Change	-	80°C (hot water) ×10min	-
	Moisture Resistance	No Change	-	70°C×80%RH×48h	-
	Heat Resistance	No Change	-	80°C×40min	-
	Low Temperature Resistance	No Change	-	-30°C×10h	-
	Cold & Heat Cycle Test	No Change	-	-30°C×6h←→23°C×3h (10 cycles)	-
	Adhesion	No Detaching	-	Cross-hatching test 3M tape (5times)	-
Mechanical Properties	Tensile Strength	60	MPa	-	ISO 527
	Flexural Strength	85	MPa	-	ISO 178
Chemical Resistance	Ethanol Resistance	No Change	-	Coated sample hardening layer wiped with absorbent cotton	-
	Weak Acid Resistance (0.5%)	No Change	-	ball fully immersed in test solution, then sealed with PE film, left at room temperature	-
	Salt Water Resistance (5%)	No Change	-	for 24 h, rinsed with pure water, then observation	-
	Flammability	V-2/VTM-2		E249605	

Tip: This test is for reference only, not for absolute indicator of application.

