

SHIELD

PRODUCT STRUCTURE

Material	Aliphatic TPU
Adhesive	Acrylic Adhesive
PET Protection Layer	50um
Top Coating Layer	7um
Polyurethane	130um
Adhesive	15um
PET liner	50um

**The total thickness of the product layer fluctuates by 5%.

Property	Test Item	Test Method	Unit	Result
Optical Property	Gloss Value	OTM-3-309		140
	Surface Haze	ASTM D-1003	%	0.49
Physical Property	Tensile Strength	D-412	psi	5900
	Elongation at break	D-412	%	>320
	Taber Abrasion	ASTM D-1044	1000g weight	≤3.3g
	Weathering Properties	TEST 1 *	1000 hours	No Damage
	Chemical Resistance	5% Acid 5%NAOH 100% Alcohol Gasoline	24 hours	No Damage
	Heating Resistance	80°C 2h-20°C 2h 10 cycle test		No Damage
	UV Rejection	UV Testing Machine		≥99%
	Water Contact Angle	Contact Angle Measuring Device		101°
	Adhesion(20MIN)	Peel Strength Testing Machine		13.28N
	Adhesion(24H)	Peel Strength Testing Machine		17.11N

Test 1*: QUV using UVA bolb, 4 hours 50°C UV exposure, 4 hours 60°C condensation.

**The data in this table are laboratory data for reference only.