

**Hard-Coated, Abrasion-Resistant Polycarbonate**
**פוליקרבונט עם ציפוי קשיח עמיד לשחיקה**

Physical Properties	Test Condition	Standard Value	Unit	Test standard
Density		1.2	g/cm <sup>3</sup>	ISO 1183
Taber haze	500 g, 100/500	From 1% to 10%	%	ASTM D1044
Abrasion Resistance	0000# steel wool, with 250 g/cm <sup>2</sup> pressure, 5 cm stroke reciprocating for 25 times	No Damage		
Hot Water Resistance	80°C (hot water) × 10 min	No Change		
Moisture Resistance	70°C × 80% RH × 48h	No Change		
Heat Resistance	80°C×40min	No Change		
Coated sample hardening layer wiped with absorbent cotton ball fully immersed in the test solution, then sealed with PE film, left at room temperature for 24 h, rinsed with water, then observation.	-30°C×10h	No Change		
Cold & Heat Cycle Test	From -30°C to 23°C (9h)	No Change		
Adhesion	Cross-hatching test 3M tape (5 times)	No Detaching		
Tensile Strength		60	MPa	ISO 527
Flexural Strength		85	MPa	ISO 178
Ethanol Resistance, Weak Acid Resistance (0.5%) Salt Water Resistance	Coated sample hardening layer wiped with absorbent cotton ball fully immersed in test solution, then sealed with PE film, left at room temperature for 24 h, rinsed with water, then observation.	No Change		
Transmittance	Thickness from 1mm to 15mm	From 82% to 92%	%	ASTM D1003

