


# DURABIO™ (Durable + BioPolymer)

## Plant-based/Environmentally-friendly High Functional Engineering Plastics

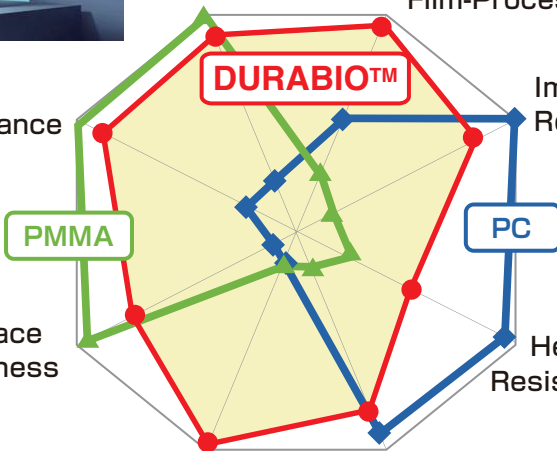
### Characteristics and Advantages

**Glass Substitution**  
(Weight Saving+SDGs)




Low Birefringence  
Excellent Transparency


Film-Flexibility,  
Film-Processability




**Impact Resistance**  
Safety



**Weather Resistance**  
(No Color Change)




**Paint-free, Coating-free**  
(Reduction of VOC+SDGs)



**Renewable**  
(Reduction of CO<sub>2</sub>+SDGs)

**Flame Retardancy**  
Safety



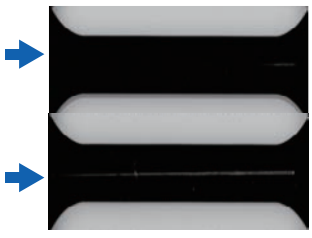
**UV/Weather Resistance**



DURABIO™      Polycarbonate

**Scratch Resistance**

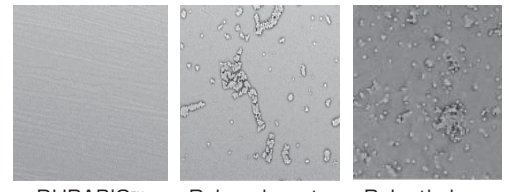
Load increase type surface scratch test



DURABIO™: Scratch weight 43N  
PMMA: Scratch weight 3N

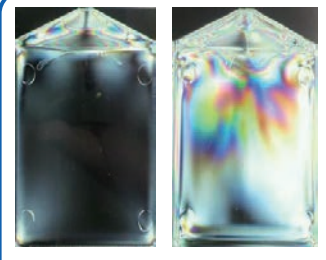
**Bacteria Repellent**

Reduce bacteria in number by wiping of water (S. Aureus)



DURABIO™      Polycarbonate      Polyethylene

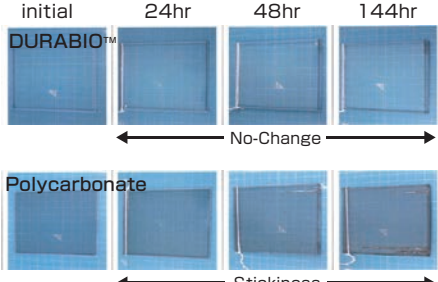
**Low Birefringence**



DURABIO™      Polycarbonate

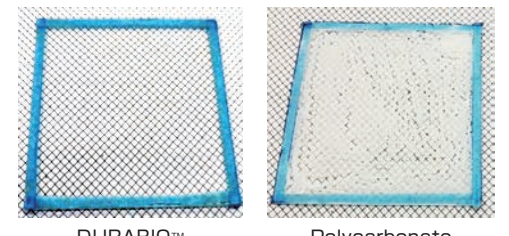
**Amine Resistance**

initial      24hr      48hr      144hr



DURABIO™: No-Change  
Polycarbonate: Stickiness

**Sunscreen Resistance**



DURABIO™      Polycarbonate