The use of acrylic

Advantages of Acrylic:

Excellent optical clarity & transparency

Highly resistant to variations in temperature

Up to 17 times the impact resistance of ordinary glass

Half the weight of glass and ideal for precision machining

Highly resistant to many different chemicals

<https://www.carvilleplastics.com/latest_news/key-properties-acrylic/>

1. Excellent optical clarity:

Acrylic plastic is extremely transparent, offering excellent light transmission. Our dancing pat demands materials with high optical clarity to transmit the LED light, and Acrylic plastic is just the right choice.

2. Impact resistant:

Acrylic glass can have up to 17 times the impact resistance of ordinary glass and have very good resistance to impact. It provides game players with a safe gaming environment and also increases the stability of the dancing mat.

3. Waterproof: (excellent weatherability)

Acrylic materials are completely waterproof. Acrylic layer on the tile protects the inner circuit from water and other impacts. It also has a high heat tolerance so we do not need to worry about the outdoor weathers deforming the mat. The high weatherability could help acrylic layers serve outdoors for a long time without maintenance.

4. Eco-friendly:

Acrylic plastic is recyclable (but not bio-degradable), but we can re-use it by cutting larger sheet into small pieces and make it into other things.