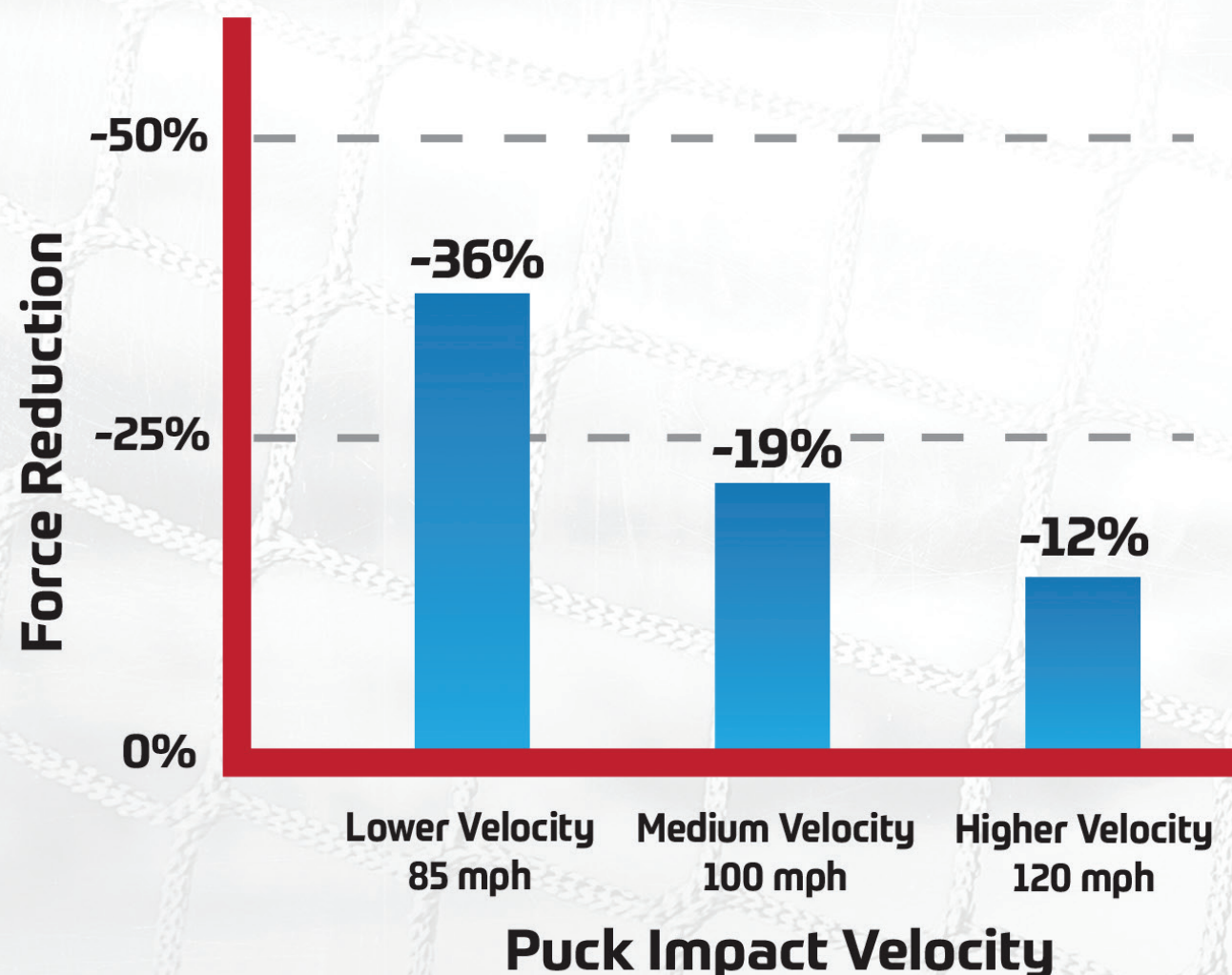




# EXTERIOR SKATE PROTECTOR PUCK IMPACT TESTING



## AVERAGE FORCE REDUCTION OF EXTERIOR SKATE PROTECTORS (by speed)



## PERCENTAGE FORCE REDUCTION OF EXTERIOR SKATE PROTECTORS (by product)



More Protective

1 - Translucent plastic; 2 - Opaque fiber composite; 3 - High density foam

### ABOUT THE TESTING:

The NHL, in collaboration with the NHLPA, engaged biomechanical engineers to conduct laboratory testing on the most frequently worn exterior skate protectors to determine force reduction on the medial and lateral sides of the foot/ankle during direct frozen puck impacts anterior and inferior to the malleoli under controlled laboratory conditions. (Controlled laboratory testing did not allow for impacts closer to the forefoot). Perpendicular puck impact testing was conducted to be reflective of puck impacts during game play of 85 mph, 100 mph and 120 mph.

The test results do not predict injury risk, as there may be other metrics associated with injury that were not part of the testing protocol. In addition, other factors may be important in selecting protective equipment such as Player position, his style of play and his injury history, as well as the particular equipment's fit and performance.

The information presented here is based upon the test results and the expert opinions of the engineers involved, with input from members of the NHL/NHLPA Foot and Ankle Task Group of the NHL/NHLPA Protective Equipment Subcommittee. (January, 2022)