

Title

MECHANICAL PROPERTIES OF
ULTRA HIGH SPEED INJECTION SANDWICH MOLDED PARTS

Authors

Hiroyuki Hamada, Machiko Mizoguchi², Susumu Takashima¹, Satoko Baba¹ and Shigeyuki Nagata¹

1 Division of Advanced Fibro Science, Kyoto Institute of Technology

2 Dept. of Polymer Science & Engineering, Yamagata university

Topic

Molding Technology

Abstract

The first attempt of sandwich injection molding with ultra-high speed equipment was described by using Polypropylene as the matrix material. The injection speed of core material was 1000mm/sec. The difference of core progressive behavior between low and high injection speed was recognized. Also the thickness of skin material decreased with increase of core flow length and finally it reached 150 μ m. The difference of mechanical properties was not significant.