

**EFFECTS OF INJECTION MOLDING PROCESSING  
PARAMETERS ON APPEARANCE RELATED OPTICAL  
PROPERTIES OF STYRENE-ACRYLONITRILE  
COPOLYMER AND COMPARISON WITH THE CASE  
OF POLYCARBONATE**

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**ABSTRACT**

Effects of injection molding conditions on appearance related optical properties of styrene-acrylonitrile copolymer (SAN) are investigated quantitatively. Different settings regarding four parameters: injection pressure, injection speed, melt temperature and mold temperature, are analyzed. For each setting, total transmittance and clarity are measured. It is observed that these parameters are rather slightly affected by processing conditions. Obtained results support the conclusions which are derived from injection molding of polycarbonate.

**Keywords:** SAN, Transmittance, Clarity, Injection Molding, Optical Properties

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