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2nd ratio MBS/PVC	Brittle fracture	Ductile fracture
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The graph illustrates the transition of MBS/PVC from a brittle to a ductile state as temperature increases. The brittle region is characterized by low impact strength, while the ductile region shows a significant increase in strength, particularly around the glass transition temperature (0°C).

The y-axis represents Charpy impact strength in kg-cm/cm², ranging from 0 to 180. The x-axis represents Temperature in degrees Celsius, ranging from -100 to 100.

The transition from brittle to ductile behavior is clearly visible at approximately 0°C, where the impact strength increases sharply.



1000

1000

Tensile strength (kg-cm/cm²)

with temperature

Temperature (°C)

with temperature.

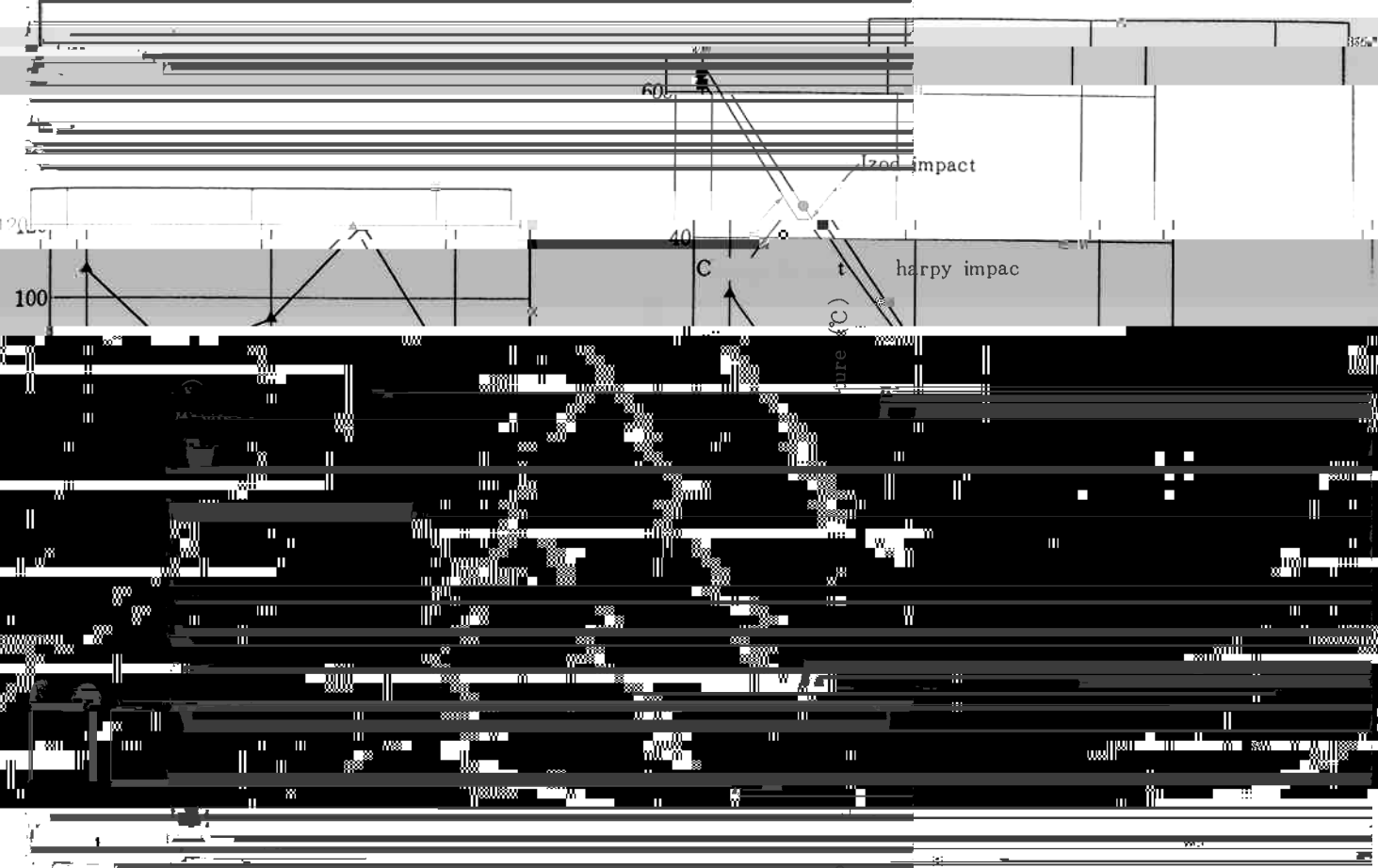
(9) 試験片の寸法、試験片の形状

160 Width of Brittle Ductile

Izod impact strength (kg-cm/cm²)

Temperature (°C)

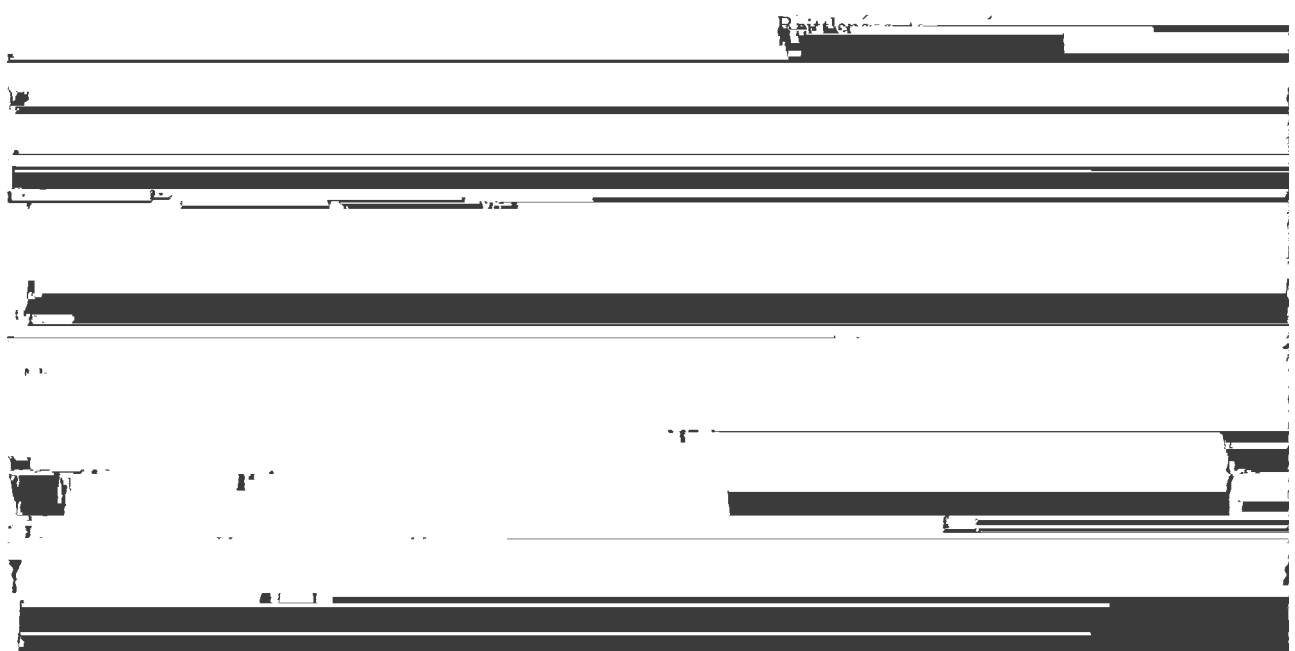
Fig. 5. Effects of width of



Impact strength

Transition

weight impact



2) I R Hyndman: *Polymer Engineering and Science*, April, 169 (1966).

13, 158 (1969).

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