1. According to de broglie hypothesis, a mass moving with certain velocity will possess wave nature and it's wavelength will be given by

Wavelength=h/mv

Where mv= momentum of moving mass

2. Also we know that for moving masses $K=p^2/2m$. Therefore

$$p = (2Km)\frac{1}{2}$$

So, the equation becomes

Wavelength= h/(2Km)½

3. This property can be experimentally observed for microscopic particles while electron microscope is based on this property.