$$\text{Values of } \rho c^2_{\hat{q},p}$$

Direction of polarization	Direction of propagation		
	100	110	111
Longitudinal	c_{11} $= 4.2$	$\frac{1}{2}[c_{11} + c_{12} + 2c_{44}]$ $= 6.4$	$\frac{1}{3}[c_{11} + 2c_{12} + 4c_{44}]$ $= 7.1$
Transverse 001	$c_{44} = 2.6$	$c_{44} = 2.6$	-
110	-	$\frac{c_{11} - c_{12}}{2} = .41$	$\frac{c_{11} - c_{12} + c_{44}}{3} = 1.15$

Numerical values are for potassium in units of dynes/cm^2 x 10^{-10}, using values of c_{11}, c_{12}, c_{44} from Table 1-1 .

Table 4 - 3

Velocity of Sound in Potassium