Polymothyl mothacrylate (PMMA) P1=0121 $P_{12} = 0.27$ Er = 2.481 ×10-5. $E_{2} = 8.598 \times 10^{-6}$ n = 1.46 P = 2MPa $\frac{\Delta\phi}{\phi} = \mathcal{E}_{Z} - n^{2} \left[(P_{11} + P_{12}) \mathcal{E}_{r} + P_{12} \mathcal{E}_{z} \right]$ $= (8.898 \times 10^{6}) - 1.46^{2} (0.121 + 0.27) 2.481 \times 10^{-5}$ +(0.27×8.598×10°)] = $4.215 \times 10^{-6} \times JI$ radian We have \$ = 1.54 × 107 rad $\Delta \phi = 1.1329 \text{ rad}$ $S_{PP} = \Delta \phi = 1.1329 = 0.5664$ $S(d6) = 20log(Sm/s) - 20log(0.5664 \times 10^{-6})$ =-124.937dB.Y For P = 3MPa. 3 For P= 1 MPa $\xi_r = 3.72 \times 10^{-5}$ $E_r = 1.24 \times 10^{-5}$ $\mathcal{E}_{7} = 1.29 \times 10^{-5}$ Ez = 4.30×10-6. $\Delta \phi = 1.6972 \text{ rodion}.$ $\Delta \phi = 0.5657 \, radian$ 5m = 0.5657Sm = 0.5657Scots) = - 124.947 dB. S(16) = -124997dB.

Silican rubber

$$R_{11} = 0.19^{-1}$$
 $R_{12} = 0.27$
 $E_{7} = 3.47 \times 10^{-2}$
 $E_{7} = 1.62 \times 10^{-2}$
 $D = 1.46$
 $P = 2mPa$

$$Ab = E_{7} - \frac{1}{2} \left((P_{11} + P_{12}) E_{7} + P_{12} E_{7} \right)$$

$$= 1.62 \times 10^{-2} - 1.46^{2} \left((0.121 + 0.27) 3.47 \times 10^{-2} \right)$$

$$= 2.92 + 7 \times 10^{-3} \times 17 \text{ rad.}$$

We have $\phi = 1.54 \times 10^{7} \text{ rad.}$

We have $\phi = 1.54 \times 10^{7} \text{ rad.}$
 $Sm = 3.93.46$
 $S(M_{6}) = 20 \log \left(\frac{Sm}{S_{7}} \right) = -69.101 dR$
 $E_{7} = \frac{5.21 \times 10^{-2}}{2}$
 $E_{7} = \frac{8.08 \times 10^{-3}}{2}$
 $E_{7} = 9.43 \times 10^{-2}$
 $E_{7} = \frac{8.08 \times 10^{-3}}{2}$
 $E_{7} = \frac{3.97.918}{2}$
 $E_{7} = \frac{3.97.918}{2}$
 $E_{7} = -68.003 dR$
 $E_{10} = -68.003 dR$