

# Form Factor

=== Solid sphere ===

For a solid sphere of radius R, the form factor is isotropic and reads

$P_{\text{solid sphere}}$

Unknown macro: {sphere}

$P(q) = \frac{3}{4\pi} \frac{1}{q^3} \left[ \sin(qR) - qR \cos(qR) \right]$

Unknown macro: {\sin(qR) - qR cos(qR) }

Unknown macro: {(qR)^3}

$\frac{1}{q^2}$