ENDF/B-VI NI-60A
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production
ENDF/B-VI NI-60A
resonance total cross section

Energy (MeV)

Cross section (barns)

total
ENDF/B-VI NI-60A
resonance total cross section
ENDF/B-VI NI-60A
resonance total cross section
ENDF/B-VI NI-60A
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VI NI-60A
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VI NI-60A
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

10^{-2}

10^{-3}

10^0

10^1

capture
ENDF/B-VI NI-60A
Damage

Energy (MeV)

Damage (MeV-barns)
ENDF/B-VI NI-60A
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
(n,a)
(n,xa)
ENDF/B-VI NI-60A
Damage

Damage (MeV-barns) vs. Energy (MeV)

- Damage line graph

Energy (MeV) range: 0 to 20
Damage (MeV-barns) range: 0 to 400

*10^{-3}
ENDF/B-VI NI-60A
Inelastic levels

Energy (MeV)

Cross section (barns)

$^{10^{-3}}$

(n,n*11)
ENDF/B-VI NI-60A
Threshold reactions

- (n,d)
- (n,xp)
- (n,xd)
ENDF/B-VI NI-60A
angular distribution for elastic
ENDF/B-VI NI-60A
angular distribution for (n,n*1)
ENDF/B-VI NI-60A
angular distribution for \((n,n^*2)\)
ENDF/B-VI NI-60A
angular distribution for (n,n*4)
ENDF/B-VI NI-60A
angular distribution for (n,n*6)
ENDF/B-VI NI-60A
Neutron emission for (n,2n)
ENDF/B-VI NI-60A
Neutron emission for \((n,n^*)a\)
ENDF/B-VI NI-60A
Neutron emission for \((n,n^*)p\)
ENDF/B-VI NI-60A
Neutron emission for \((n,n^*c)\)
ENDF/B-VI NI-60A
Photon emission for (n,gma)
ENDF/B-VI NI-60A
Photon emission for (n,2n)
ENDF/B-VI NI-60A
Photon emission for (n,n*)a
ENDF/B-VI NI-60A
Photon emission for $(n,n^*)p$
ENDF/B-VI NI-60A
Photon emission for (n,n*c)
ENDF/B-VI NI-60A
Photon emission for \((n,p)\)
ENDF/B-VI NI-60A
Photon emission for (n,a)
Endf/B-VI Ni-60A
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VI NI-60A 14 MeV photon spectrum
ENDF/B-VI NI-60A
Recoil Heating

Recoil heating

Energy (MeV)

Heating (MeV/reaction)
ENDF/B-VI NI-60A
Particle production cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VI NI-60A
protons from \((n,n^*)p\)
ENDF/B-VI NI-60A protons from (n,p)
ENDF/B-VI NI-60A
alphas from (n,n*)a

[Diagram showing secondary energy on the x-axis, energy (MeV) on the y-axis, and probability on the z-axis with multiple peaks indicating the distribution of energy for alpha particles.]
ENDF/B-VI NI-60A
alphas from (n,a)