

Parameter	Value	Units	Description
ρ	917	kg m^3	Density of ice
\mathbf{g}	(0, 0, -9.81)	m s^{-2}	Gravitational acceleration
n	3		Glen exponent
A_o	1.258×10^{13}	$\text{MPa}^{-3} \text{a}^{-1}$	Pre-factor for $T < -10^\circ\text{C}$
	6.046×10^{28}	$\text{MPa}^{-3} \text{a}^{-1}$	Pre-factor for $T \geq -10^\circ\text{C}$
Q	60.0×10^3	J mol^{-1}	Activation energy for $T < -10^\circ\text{C}$
	139.0×10^3	J mol^{-1}	Activation energy for $T \geq -10^\circ\text{C}$
R	8.314	$\text{J mol}^{-1} \text{K}^{-1}$	Gas constant
d_o	3.16×10^{-2}	a^{-1}	Critical strain rate
k	$9.828 \exp\left(-5.7 \times 10^3 T\right)$	$\text{W m}^{-1} \text{K}^{-1}$	Heat conductivity of ice. T in K
c	$146.3 + 7.253 T$	JK^{-1}	Heat capacity of ice. T in K
T_{pmp}	$273.15 - 9.8 \times 10^{-8} p$	K	Pressure melting point. p is pressure in Pa
m	1		Sliding exponent
C_o	0.001	MPa a m^{-1}	Sliding parameter for temperate ice
C_1	0.1	MPa a m^{-1}	Sliding parameter for cold ice
γ	2	K	Sub-melt sliding parameter