

3.60 Symmetry, Structure and Tensor Properties of Materials

DISTRIBUTION OF LATTICE TYPES, POINT GROUPS AND PLANE GROUPS AMONG THE TWO-DIMENSIONAL CRYSTAL SYSTEMS

SYSTEM (4)	LATTICE (5)	POINT GROUP (10)	PLANE GROUPS (17)
OBLIQUE $a \neq b$ $\gamma \neq 90^\circ$	PRIMITIVE PARALLELOGRAM (oblique)	1	P1
		2	P2
RECTANGULAR $a \neq b$ $\gamma = 90^\circ$	PRIMITIVE RECTANGLE	m	Pm P _g Cm
	CENTERED RECTANGLE (DIAMOND)	2mm	P2mm P2mg P2gg C2mm
SQUARE $a_1 = a_2$ $\gamma = 90^\circ$	SQUARE	4	P4
		4mm	P4mm P4gm
HEXAGONAL $a_1 = a_2$ $\gamma = 120^\circ$	HEXAGONAL (EQUILATERAL)	3	P3
		3m	P3m1 P31m
		6	P6
		6mm	P6mm