

COOWIN GROUP[®]

WPC(wood plastic composite) Material Specification

Composition Information

Item(s)	Description(s)	Content
Wood fiber	80 mesh white poplar wood fiber	50%
Plastic particle	High quality HDPE plastic resin	38%
Additives	1) Light stabilizer 2) Anti-UV additive 3) Anti-Aging additive 4) Coupling Agents 5) Color pigment	12%

Physical and Chemical Properties

Item(s)	Test Result(s)	Test Method(s)
Density	1.33g/cm ³	ASTM D792-00
Moisture Content	0.2%	ASTM D7031-11 Section 5.15 ASTM D4442-16 Method B
Screw withdrawal test	3353N	ASTM D7032-17 Section 5.5 ASTM D1761-12
Impact Resistance	>133J	ASTM D4495-16
Specific Gravity	1.31	ASTM D7031-11 Section 5.14 ASTM D792-13 Method A
Shore Hardness	D/70/1	ASTM D2240-15
Mouldproof level	0 ^[1]	ASTM G 21-15
Formaldehyde Emission	0.02ppm ^[2]	ASTM D6007 -14
Soluble heavy metal	ND ^[3]	ASTM F963- 16(Clause 8.3)
Fire-Proof Level	B ₁	EN ISO 9239-1:2010 EN ISO 11925-2:2010+AC:2011

[1] Mold rating standard: 0 — No mildew or discoloration on the surface

[2] 1 ppm = 1 mg/kg = 0.0001%

[3] ND = Not detected (< Method detection limit)