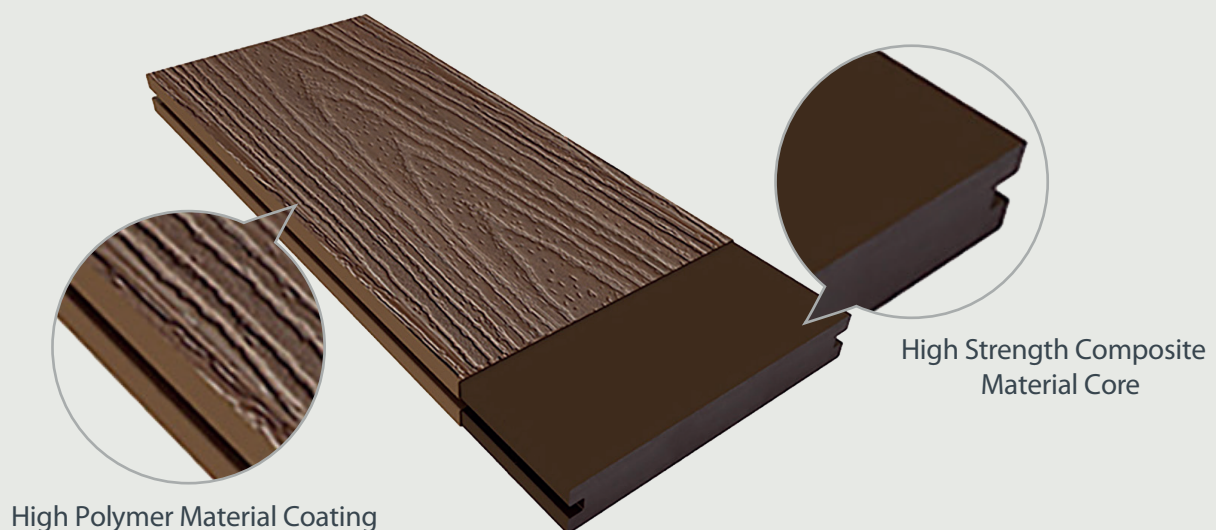


WOOD PLASTIC COMPOSITE MATERIAL SPECIFICATION

Co-extrusion Composition Information			
Structure	Item(s)	Description(s)	Content
Coating Material	High Polymer Layer	Modified HDPE	100%
Core Material	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%

Co-extrusion Structure Description



Capped composite decking is a new type of composite decking made of composite material as core and coated with super-performance polymer material.

Physical and Chemical Properties

Item(s)	Test Result(s)	Test Method(s)																																			
Density	1.35g/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)																																			
Abrasion Resistance	Mass loss:30.0mg Wear index:30	ASTM D4060-14																																			
Resistance to indentation	Brinell hardness:79 MPa Rate of elastic recovery:54%	EN 15534-1:2014 Section 7.5 EN 15534-4:2014 Section 4.5.7 EN 1534:2010																																			
Fire-Proof Level	B _n	EN ISO 9239-1:2010																																			
		EN ISO 11925-2:2010+AC:2011																																			
Resistance to artificial weathering	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th colspan="7">Test Result:</th> </tr> <tr> <th>Exposure time</th> <th>ΔL*</th> <th>Δa*</th> <th>Δb*</th> <th>ΔE*</th> <th>Grey scale</th> <th>Observation</th> </tr> </thead> <tbody> <tr> <td>720 hours</td> <td>-0.14</td> <td>0.11</td> <td>0.18</td> <td>0.26</td> <td>5</td> <td>Part showed no color change</td> </tr> <tr> <td>1440 hours</td> <td>-0.28</td> <td>0.14</td> <td>0.38</td> <td>0.50</td> <td>4-5</td> <td>Part showed slight color change</td> </tr> <tr> <td>2000 hours</td> <td>-0.37</td> <td>0.18</td> <td>0.43</td> <td>0.60</td> <td>4-5</td> <td>Part showed slight color change</td> </tr> </tbody> </table>	Test Result:							Exposure time	ΔL*	Δa*	Δb*	ΔE*	Grey scale	Observation	720 hours	-0.14	0.11	0.18	0.26	5	Part showed no color change	1440 hours	-0.28	0.14	0.38	0.50	4-5	Part showed slight color change	2000 hours	-0.37	0.18	0.43	0.60	4-5	Part showed slight color change	ISO 4892-2:2013 cycle 1
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[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)