

Mechanical properties		Test averages	Unit	Test standard
Tensile strength	LW	230	MPa	GB 1447/ ASTM D-638
	CW	75		
Tensile modulus	LW	24.2	GPa	GB 1447/ ASTM D-638
	CW	11		
Compressive strength	LW	280	MPa	GB 1448/ ASTM D-695
	CW	105		
Compressive modulus	LW	21	GPa	GB 1448/ ASTM D-695
	CW	7.9		
Flexural strength	LW	330	MPa	GB 1449/ ASTM D-790
	CW	79		
Flexural modulus	LW	20	GPa	GB 1449/ ASTM D-790
	CW	7.8		
Interlayer shear strength	LW	25	MPa	GB 3357/ ASTM D-2344
Impact toughness	----	280	KJ/m <sup>2</sup>	GB 2451/ ASTM D-256

Physical property	Test average	Unit	Test standard
Barcol Hardness	50	----	GB 3854/ ASTM D-495
Water absorption (25°C,24h)	0.5	%	GB 1462/ ASTM D-570
Gravity	1.8	g/cm <sup>3</sup>	GB 1463/ ASTM D-792
Coefficient of thermal expansion (LW)	5.0	10 <sup>-6</sup> /°C	GB 2572/ ASTM D-696
Coefficient of thermal conductivity	0.4	W/(m·K)	GB 3139/ ASTM C-518

Electrical property	Test average	Unit	Test standard
Arc resistance (LW)	120	seconds	GB 1411/ ASTM D-495
Dielectric strength (LW)	1.6	KV/mm	GB 1408/ ASTM D-149
Dielectric strength (PF)	8	KV/mm	GB 1408/ ASTM D-149
Dielectric constant (PF)	5	@60hz	GB 1409/ ASTM D-150
Surface resistivity	10 <sup>15</sup> -10 <sup>12</sup>	Ω	GB 1410/ ASTM D257
Volume resistivity	10 <sup>15</sup> -10 <sup>12</sup>	Ω·cm	GB 1410/ ASTM D257

Flammability property	Test average	Unit	Test standard
Tunnel test	25max.	----	ASTM E84
Oxygen data	≥32	%	GB 8924/ ANSI UL-94
Using the resin of flame retardant type can meet the above requirements.			

※ LW – lengthwise    CW-crosswise    PF-perpendicular to laminate face