

Premixed compounds for injection moulding

	WPC BIO PE H50-500-20	WPC BIO TPS H50-510-35	WPC PE H50-500-9	WPC PE H50-500-29	WPC PP C50-500-14	WPC PP H50-500-14	WPC PP H60-500-14	WPC PP H50-500-14-KS
Plastics: proportion [%]	BIO-PE: 47	BIO-TPS: 47	PE: 47	PE: 47	PP: 47	PP: 47	PP: 37	PP: 47
Fibres: proportion [%]	Softwood: 50	Softwood: 50	Softwood: 50	Softwood: 50	Cellulose: 50	Softwood: 50	Softwood: 60	Softwood: 50
Additives	3	3	3	3	3	3	3	3
Colour	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural
Appearance	Granulate	Granulate	Granulate	Granulate	Granulate	Granulate	Granulate	Granulate
Loss on drying [%]	~1	~1	~1	~1	~1	~1	~1	~1
Bulk density [g/l]	~550	~550	~550	~550	~550	~550	~550	~550
Flexural properties								
Flexural strength [MPa]	ca. 59	ca. 45	ca. 54	ca. 51	ca. 59	ca. 57	ca. 58.7	ca. 32
Flexural elongation [%]	ca. 4.0	ca. 0.9	ca. 4.1	ca. 2.5	ca. 4.8	ca. 2.5	ca. 2.1	ca. 5.8
Young's flexural modulus [MPa]	ca. 3920	ca. 6150	ca. 3670	ca. 4330	ca. 3361	ca. 4262	ca. 4530	ca. 1650
Chordal flexural modulus [MPa]	ca. 3720	ca. 6000	ca. 3480	ca. 4070	ca. 3294	ca. 4230	ca. 4550	ca. 1630
Tensile properties								
Tensile strength [MPa]	ca. 39	ca. 25	ca. 39	ca. 35	ca. 34.3	ca. 32.50	ca. 39.8	ca. 18
Tensile elongation [%]	ca. 2.8	ca. 0.5	ca. 2.9	ca. 1.7	ca. 3.2	ca. 1.95	ca. 1.6	ca. 5.4
Young's tensile modulus [MPa]	ca. 4850	ca. 7100	ca. 4450	ca. 4680	ca. 3683	ca. 4522	ca. 5620	ca. 1820
Chordal tensile modulus [MPa]	ca. 4150	ca. 6300	ca. 3870	ca. 4310	ca. 3434	ca. 4293	ca. 5390	ca. 1795
Impact properties								
Impact strength without notch [kJ/m ²]	~15	~4.6	~11.4	~7.3	ca. 19.1	ca. 10.6	ca. 9.6	ca. 24
Impact strength with notch [kJ/m ²]	~3.5	~2.6	~3.7	~2.6	ca. 4.8	ca. 3.4	ca. 2.9	ca. 8.5
Other properties								
Density	ca. 1.05	ca. 1.05	ca. 1.05	ca. 1.05	ca. 1.05	ca. 1.05	ca. 1.1	ca. 1.1
Flow distance [cm]	ca. 29	ca. 34	ca. 27	ca. 37	ca. 45	ca. 45	ca. 21	ca. 54