

type of plastic	CNF Concentration (%)	Tensile Strength (MPa)	Tensile Stroke (mm)	Elasticity (MPa)	Bending Strength (MPa)	Bending Stroke (mm)
Polyethylene (PE)	0	10				
PE composite with CNF	23	15 - 17				
PE composite with CNF	33	24 - 25				
Polypropylene (PP)	0	32	6.2	2031	59	9.4
PP composite with CNF	23	38 - 39				
PP composite with CNF	33	41 - 42				
PP composite with CNF	40	48 - 49		3289	83	7.7
Poly Styrene (PS)	0	29				
PS composite with CNF	23	36 - 37				
Polymethyl methacrylate (PMMA)	0	42				
PMMA composite with CNF	23	56 - 57				
Polyamide 6 (PA6)	0	42				
Polyamide 6 (PA6) composite with CNF	13	43				
Poly Vinyl Chloride (PVC)	0	12				
PVC composite with CNF	23	22 - 23				
Acrylonitrile butadiene styrene (ABS)	0	43				
ABS composite with CNF	23	50 - 51				
Polycarbonate (PC)	0	44				
PC composite with CNF	23	55 - 56				
polyvinyl butyral (PVB)	0	44				
PVB composite with CNF	23	54 - 55				
Thermoplastic Poly Urethane (TPU)	0	17				
TPU composite with CNF	25	30				
polyacetal, polyoxymethylene (POM)	0	51				
POM composite with CNF	23	61				
Ethylene α Olefin Copolymer	0	7.3		22.7	1.5	
Ethylene α Olefin Copolymer with CNF	33	7		370	6.7	