

Flexural Performance Summary

Tested at 20°C and 60% humidity, with 50 mm deflection, 104 mm gauge length and 5 mm/min test speed.

AVG. MAXIMUM LOAD

1836.16 N

Std dev. 106.79 N

AVG. FLEXURAL STRENGTH

431.20 MPa

Range 391.34 - 460.21 MPa

AVG. ELASTIC MODULUS

19.97 GPa

Range 18.61 - 21.32 GPa

Test details

Sample name	203 × 56 × 9.5 mm C section	Temperature	20°C	Humidity	60%
Deflection	50 mm	Gauge length	104 mm	Test speed	5 mm/min

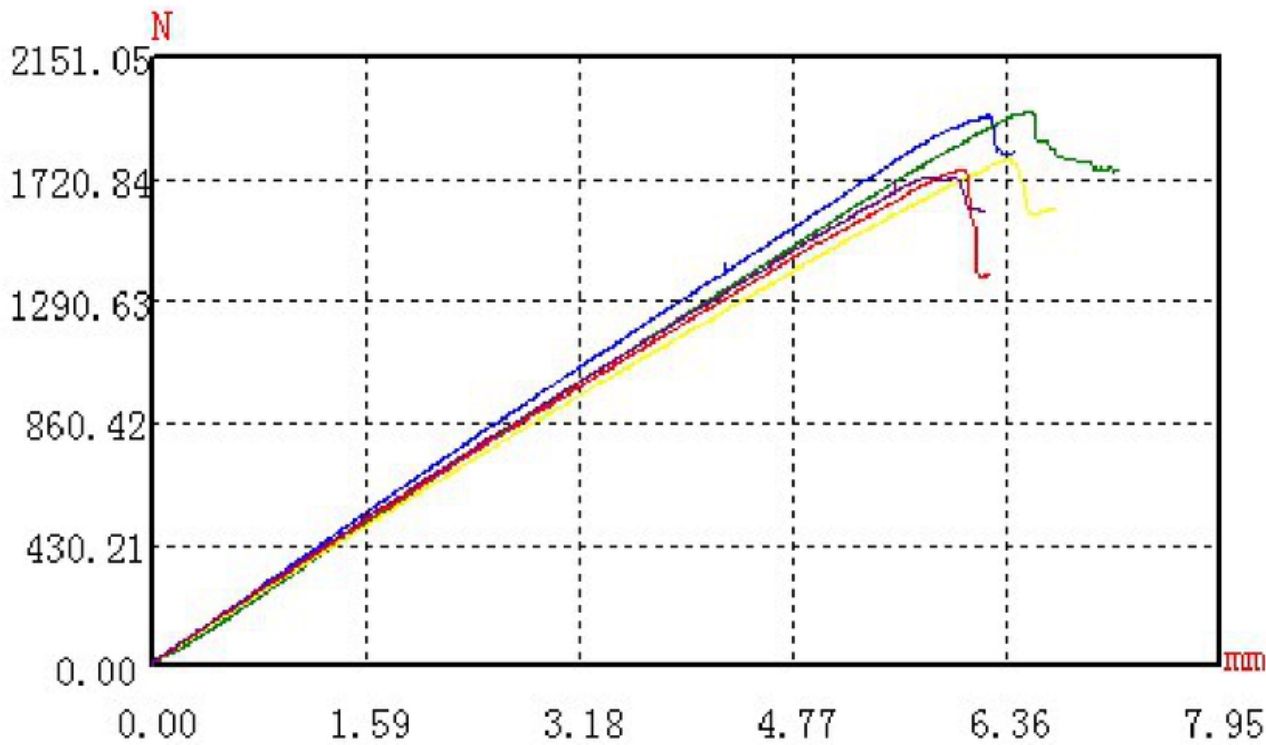
Test result data

Specimen level values with average, standard deviation, maximum and minimum figures.

Item	Area (mm ²)	Max load (N)	Flexural (MPa)	Elastic modulus (GPa)
1	108.80	1955.499	438.100	19.477
2	103.04	1945.434	460.209	21.316
3	99.20	1793.020	440.573	19.808
4	109.44	1757.074	391.344	18.608
5	97.50	1729.754	425.786	20.630
Average	103.60	1836.160	431.200	19.970
Std dev.	5.43	106.790	25.470	1.050
Max.	109.44	1955.500	460.210	21.320
Min.	97.50	1729.750	391.340	18.610

Load - deflection curve

Original chart extracted from the submitted test report.



Report interpretation

Highest flexural strength	460.21 MPa	Lowest flexural strength	391.34 MPa
Highest modulus	21.32 GPa	Lowest modulus	18.61 GPa