

**PA12 Technical Data Sheet(TDS)**

| Property                     | Testing Method     | Typical Value                |
|------------------------------|--------------------|------------------------------|
| Density                      | ISO1183, GB/T1033  | 1.13 g/ <sup>3</sup> at 21°C |
| Melt Index                   | 235°C, 2.16Kg      | 2.8 g/10 min                 |
| Property                     | Testing Method     | Typical Value                |
| Glass Transition             | DSC, 10°C/min      | 67°C                         |
| Heat Deflection Temperature  | ISO 75 1.8 MPA     | 155°C                        |
| Property                     | Testing Method     | Typical Value                |
| Tensile Strength (X-Y)       | ISO 527, GB/T 1040 | 50 MPa                       |
| Tensile Strength (Z)         |                    | /                            |
| Elongation at break (X-Y)    | ISO 527, GB/T 1040 | 150%                         |
| Elongation at break (Z)      |                    | /                            |
| Bending modulus (X-Y)        | ISO 178, GB/T 9341 | 1600 MPa                     |
| Bending modulus (Z)          |                    | /                            |
| Bending Strength (X-Y)       | ISO 178, GB/T 9341 | 67 MPa                       |
| Bending Strength (Z)         |                    | /                            |
| Charpy impact strength (X-Y) | ISO 178, GB/T 9341 | 0.5 kJ/m <sup>2</sup>        |
| Charpy impact strength (Z)   |                    | /                            |

Updated on May 11, 2026