

ASA Technical Data Sheet(TDS)

| MECHANICAL PROPERTIES | | | |
|---------------------------|--------------------|----------------------------|---------------------------|
| Property | Method | Value | |
| | | XY | Z |
| Young's Modulus | ISO 527, GB/T 1040 | 2450±270 MPa | 2120±260 MPa |
| Tensile Strength | ISO 527, GB/T 1040 | 37±3 MPa | 31±4 MPa |
| Breaking Elongation Rate | ISO 527, GB/T 1040 | 9.2±1.4 % | 4.6±0.8 % |
| Bending Modulus | ISO 178, GB/T 9341 | 1920±130 MPa | 1650±120 MPa |
| Bending Strength | ISO 178, GB/T 9341 | 65±5 MPa | 40±3 MPa |
| Impact Strength | ISO 179, GB/T 1043 | 41±2.3 kJ/m ² | 4.9±0.6 kJ/m ² |
| Impact Strength (Notched) | ISO 179, GB/T 1043 | 19.6±1.8 kJ/m ² | N/A |

| THERMAL PROPERTIES | | |
|------------------------------|--------------------|---------------|
| Property | Method | Value |
| Melt Index | 260° C, 2.16kg | 7±0.8 g/10min |
| Melting Temperature | DSC, 10° C/min | 210° C |
| Glass Transition Temperature | DSC, 10° C/min | N/A |
| Vicat Softening Temperature | ISO 306, GB/T 1633 | 106° C |
| Heat Deflection Temperature | ISO 75, 1.8MPa | 92° C |
| | ISO 75, 0.45MPa | 100° C |
| Glass Transition Temperature | DSC | 105° C |



3D printing solutions for high performance materials

OTHER PROPERTIES

| Property | Method | Value |
|---------------------------------|---------------|-----------------------|
| Density | ISO 1183 | 1.05g/cm ³ |
| Saturated Water Absorption Rate | 25° C, 55% RH | 0.45% |

Updated on February 28, 2025