

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

OTHER PROPERTIES

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

Updated on May 11, 2026