

# Technical Data Sheet

## Omega Impact ABS



Material Properties	Test Method	Omega Impact ABS
Density	ISO 1183-1	1.035 g/cm <sup>3</sup>
Glass Transition Temperature (Tg)	ISO 11357-1 DSC (10°C/min - 20-300°C)	107 °C
Melt flow index (MFI)	ISO 1133-1 (@220°C – 10 kg)	3.5 - 6 g/10min

  

Mechanical Properties	Test Method	Omega Impact ABS
<i>Printing Direction: XY</i>		
Printing Speed	-	20-50 mm/s
Infill	-	Infill 100% - rectilinear
Infill Angle	-	45°/-45°
Nozzle Temperature	-	260°C
Printing Surface Temperature	-	85-95°C
Tensile modulus	ISO 527-2/5A/50	1.484 MPa
Tensile Strength	ISO 527-2/5A/50	35.3 MPa
Tensile strain at strength	ISO 527-2/5A/50	2.7 %
Tensile Stress at Break	ISO 527-2/5A/50	22.8 MPa
Tensile strain at break (type A)	ISO 527-2/5A/50	9.8 %
Flexural modulus	ISO 178	1.443 MPa
Deformation at Flexural Strain	ISO 178	>5 %
Flexural stress at conventional deflection (3,5% strain)*	ISO 178	43.6 MPa
Charpy impact resistance	ISO 179-1/1eA	24.7 kJ/m <sup>2</sup>
Shore Hardness	ISO 868	70D

\*According to ISO 178, end of the test at 5% deformation even if there is no specimen break.

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