

GR100PP

GR100PP is a polypropylene (PP) pellets for specifically designed for use in 3D printing material extrusion. This grade provides inherently low density, high fatigue, and high moisture resistance for use in Fused Filament Fabrication (FFF).

This pp pellet provides a balance of strength and impact resistance while enabling the production of relatively high strength water tight, lightweight and chemically resistant parts.

Printed Part Properties

Parameter	Method	Units	Value
Density	D 792	g/cm ³	0.91
Tensile Strength at Yield ^a	D 638	MPa	16
Tensile Strength at Break ^a	D 638	MPa	12
Tensile Elongation at Yield ^a	D 638	%	12
Tensile Elongation at Break ^a	D 638	%	99
Young's Modulus ^a	D 790	MPa	1470
Deflection Temperature (at 0.455 MPa)	D 648	°C	90
Vicat Softening Temperature (at 10 N)	D 1525	°C	140

Note: Printed part properties obtained from die cut tensile bars from a single walled box print. Tensile specimens were oriented parallel to the layer direction.

Notes

1. Recommended process conditions and printed part properties may be changed at any moment without previous communication from Braskem.
2. This resin does not contain the substance Bisphenol A (BPA, CAS: 80-05-7) in its composition.
3. For information on about safety, handling, individual protection, first aids and waste disposal, please see MSDS.
4. In case of questions regarding utilization or regulatory information, please contact our technical assistance area.

Braskem does not guarantee printed part conditions, these represent estimated values based on internal test methods. Properties may vary based on print conditions.