

# P3 Deflect™ 120



**INFINAM®** 

An Evonik product.

High-temperature photopolymer with good strength for functional parts, from Evonik INFINAM®.

Our first photopolymer from Evonik is a strong, heat-resistant material that addresses applications where a combination of high-temperature resistance and good elongation at break are crucial. P3 Deflect 120 has low viscosity and high green strength, which make it suitable for parts with challenging geometries such as wiring housings, connectors, or mold tooling.

## Key Benefits

- High HDT, 121°C (250°F) with good elongation at break
- Very stiff and high green strength
- Easy to print + single component material
- Color: Black



	Unit	Value	Method
<b>MECHANICAL PROPERTIES</b>			
Ultimate Tensile Strength	MPa	100	ASTM D638
Young Modulus	MPa	3000	ASTM D638
Elongation at Break	%	4	ASTM D638
Flexural Modulus	MPa	3715	ASTM D790
Flexural Stress at 5% Strain	MPa	132	ASTM D790
Izod Notched Impact Strength	J/m	15	ASTM D256
<b>THERMAL PROPERTIES</b>			
Heat Deflection Temperature (0.455 MPa)	°C	121	ASTM D648
<b>PHYSICAL PROPERTIES</b>			
Ec / Dp	mJ/cm <sup>2</sup> / mm	3.48 / 0.12	Internal
Shore Hardness (3s)	-	88	ASTM D2240
Liquid Viscosity at 25°C	mPa · s	450	ASTM D7867

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