

ROBUST ABS/PC

Photopolymer Resin for B9 Core Series

Material Properties

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Ideal for prototypes and end-use parts, Robust - ABS/PC can be used as a 3D printed mold replacement for injection molds & metal molds.

Comparable to ABS/PC thermoplastic with high heat deflection temperature (HDT) for real-world, usable parts with smooth satin surface finish.

- Impact Resistant
- High Flexural Modulus
- Readable Detail
- Smooth Surface Finish

	METRIC	IMPERIAL	METHOD
TENSILE PROPERTIES			
Tensile Strength	43 MPa	6.24 ksi	ASTM D638-14
Tensile Modulus	2.7 GPa	391.60 ksi	ASTM D638-14
Elongation	12.0%	12.0%	ASTM D638-14
FLEXURAL PROPERTIES			
Flexural Strength	64 MPa	9.28 ksi	ISO 178 (2015)
Flexural Modulus	1.6 GPa	232.06 ksi	ISO 178 (2015)
IMPACT PROPERTIES			
IZOD Impact Strength	28 J/m	.5248 ft-lbf/in	ASTM D256-18
TEMPERATURE PROPERTIES			
Heat Deflection Temp @ 1.80 MPa	29 °C	84.2 °F	ISO 75-1, ISO 75-2 (2013)
Heat Deflection Temp @ 0.45 MPa	56 °C	96.8 °F	ISO 75-1, ISO 75-2 (2013)
SHORE "D" HARDNESS			
	75	75	ASTM D2240-15
VISCOSITY			
	2200 CPS @ 25 °C	2200 CPS @ 25 °C	
SPECIFIC GRAVITY			
	1.07	1.06	

*All results were from models cured for 5 minutes.