

Gray Resin

Photopolymer Resin for B9 Core Series

Material Properties

Prepared: 01.08.2018

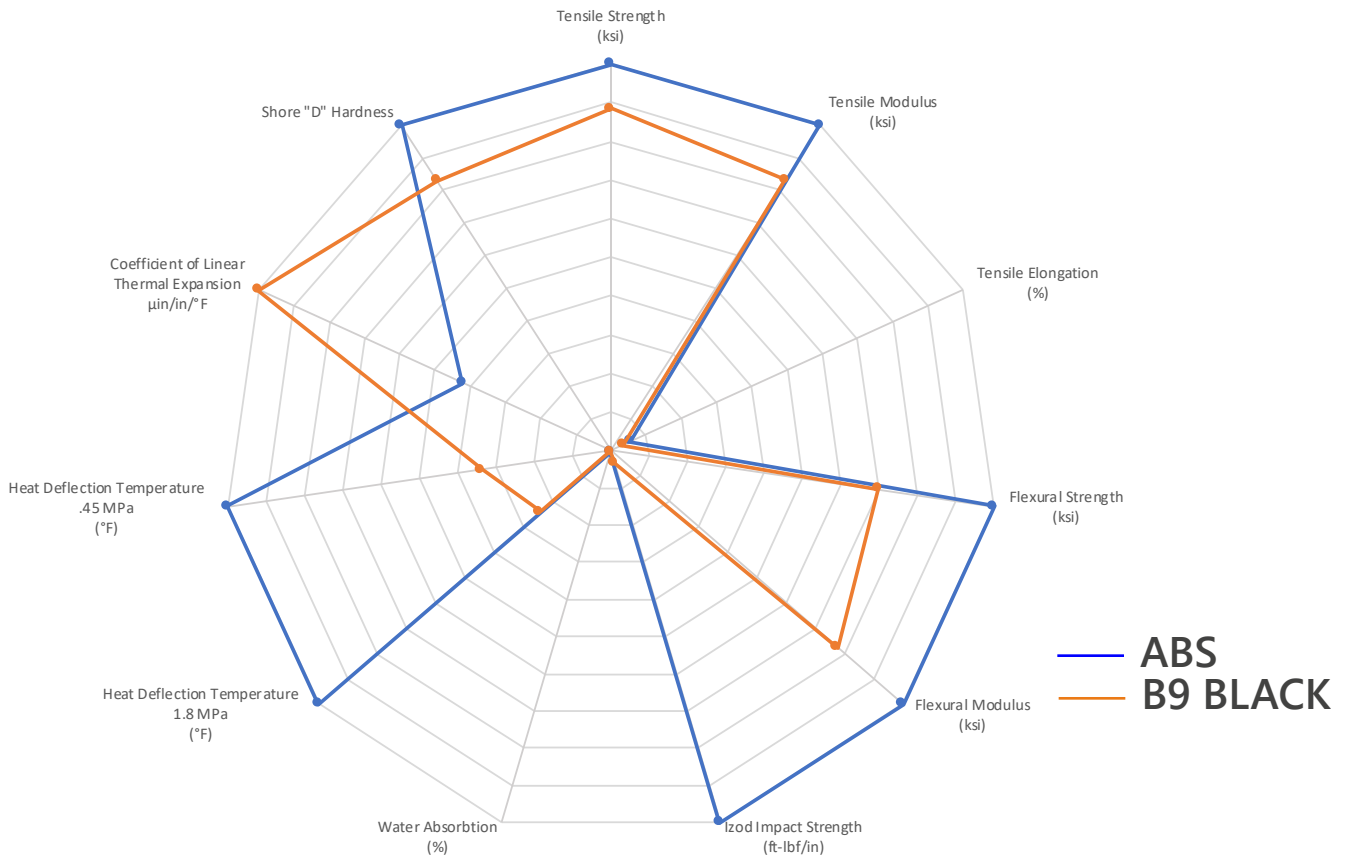
B9Creations' Gray Resin is the ideal material for achieving requirements such as dimensional accuracy, strength, and temperature resistance. This material maintains its shape and dimension through curing and is capable of extreme build speeds, reaching 100+ mm per hour, without sacrificing the surface quality.

With strength properties similar to ABS plastic, Gray Resin paired with the B9 Core Series can extend your functional prototyping into production value.

	METRIC	IMPERIAL	METHOD
TENSILE PROPERTIES			
Tensile Strength	44.6 MPa	6.47 ksi	ASTM D638-14
Tensile Modulus	2110 MPa	306.03 ksi	ASTM D638-14
Elongation	8.6%	8.6%	ASTM D638-14
FLEXURAL PROPERTIES			
Flexural Strength	63.4 MPa	9.2 ksi	ISO 178 (2010)
Flexural Modulus	1.89 GPa	274.12 ksi	ISO 178 (2010)
IMPACT PROPERTIES			
IZOD Impact Strength	20.7 J/m	0.39 ft-lbf/in	ASTM D256-10
TEMPERATURE PROPERTIES			
Heat Deflection Temp @ 1.80 MPa	39 °C	102.2 °F	ISO 75-1, ISO 75-2 (2013)
Heat Deflection Temp @ 0.45 MPa	45 °C	113 °F	ISO 75-1, ISO 75-2 (2013)
Thermal Expansion	185 µm/m-°C	102.78 µin/in-°F	ASTM E831-14
SHORE "D" HARDNESS			
	87	87	ASTM D2240-15
VISCOSITY			
	600 CPS @ 25 °C	600 CPS @ 77 °F	
SPECIFIC GRAVITY			
	1.06	1.06	
DENSITY			
	1.08-1.14 g/mL	9-9.5 Lbs/Gallon	

*All results were from samples cured for 5 minutes.

ABS vs. B9Creations Gray Material Properties



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