

HD Slate Resin

Photopolymer Resin for B9 Core Series

Material Properties

Prepared: 01.08.2018

B9Creations' HD Slate is formulated for high-detail parts with thin walls and crisp features. Precise detail, great for molding and model making. The best material for showcasing surface finish, the neutral undertone and excellent readability make these parts great for molding and painting.

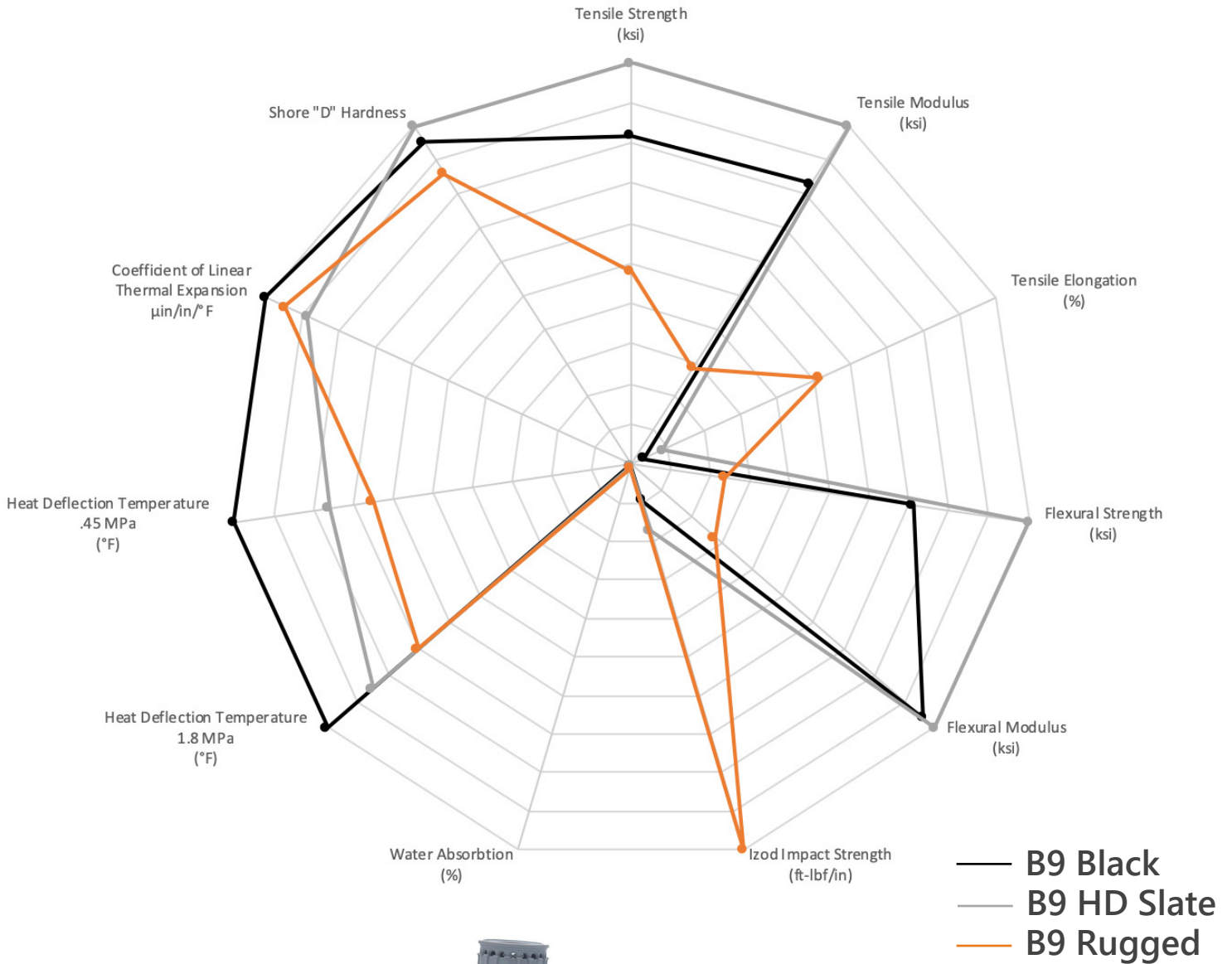
Optimized for surface finish. Features as small as 100 µm. Precise detail is great for molding and model making.

	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.

B9Creations Materials

Rugged vs. B9 Black vs. B9 HD Slate



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