

DESCRIPTION: **Typical Properties of ABS (Acrylonitrile-Butadiene-Styrene)**

PART #: **Sheet Material**

ASTM or UL test	Property	ABS	ASTM or UL test	Property	ABS
PHYSICAL			ELECTRICAL		
D792	Density (lb/in ³)	0.038	D149	Dielectric Strength (V/mil) short time, 1/8" thick	-
	(g/cm ³)	1.04	D150	Dielectric Constant at 60 Hz	-
D570	Water Absorption, 24 hrs (%)	-	D150	Dissipation Factor at 60 Hz	-
			D257	Volume Resistivity (ohm-cm)at 50% RH	1015
MECHANICAL			<p>NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets.</p> <p>All values at 73°F (23°C) unless otherwise noted.</p>		
D638	Tensile Strength (psi)	6,500			
D638	Tensile Modulus (psi)	340,000			
D638	Tensile Elongation at Break (%)	25			
D790	Flexural Strength (psi)	11,000			
D790	Flexural Modulus (psi)	320,000			
D695	Compressive Strength (psi)	-			
D695	Compressive Modulus (psi)	-			
D785	Hardness, Rockwell	R105			
D256	IZOD Notched Impact (ft-lb/in)	7.0			
THERMAL					
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	5.3			
D648	Heat Deflection Temp (°F / °C) at 264 psi	215 / 102			
D3418	Melting Temp (°F / °C)	- / -			
	Max Operating Temp (°F / °C)	140 / 60			
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F)	-			
	(x 10 ⁻⁴ cal/cm-sec-°C)	-			
UL94	Flammability Rating	H-B			

X	X		X	X
REV	DESCRIPTION	BY	DATE	APPROVED



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