



Accura[®] ABS Black (SL 7820)

ABS Class

Simulate and replace CNC-machined black ABS articles

Post-Cured Material

MEASUREMENT	CONDITION	METRIC	U.S.
Tensile Strength (MPa/PSI)	ASTM D 638	45-47	6525-6815
Tensile Modulus (MPa/KSI)	ASTM D 638	1890-2440	274-354
Elongation at Break (%)	ASTM D 638	6-13	6-13
Flexural Strength (MPa/PSI)	ASTM D 790	75-78	10875-11310
Flexural Modulus (MPa/KSI)	ASTM D 790	2260-2370	328-344
Impact Strength (J/m /Ft-lbs/in)	ASTM D 256	39-56	0.73-1.05
Heat Deflection Temperature	ASTM D 648 @ 66 PSI	51 °C	124 °F
Coefficient of Thermal Expansion ($\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ / $\mu\text{m}/\text{in}\cdot^{\circ}\text{F}$)	ASTM E 831-93 25-50 °C	93	52
Glass Transition (Tg)	DMA, E''	62 °C	144 °F
Hardness, Shore D		86	86

Features

- Rigid and tough
- Functional assemblies
- Short-run production parts

Liquid Material

MEASUREMENT	CONDITION	VALUE
Viscosity	@ 30 °C (86 °F)	200 cps
Penetration Depth (Dp)		4.5 mils
Critical Exposure (Ec)		10 mJ/cm ²
Color		Black
Solid Density	@ 25 °C (77 °F)	1.16 g/cm ³ at 25 °C
Liquid Density	@ 25 °C (82 °F)	1.13 g/cm ³ at 25 °C



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