



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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