



# Accura<sup>®</sup> 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 (µm/m-°C / µm/in-°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) | 210 cps                         |
| Penetration Depth (Dp) |                 | 4.5 mils                        |
| Critical Exposure (Ec) |                 | 10 mJ/cm <sup>2</sup>           |
| Color                  |                 | Black                           |
| Solid Density          | @ 25 °C (77 °F) | 1.16 g/cm <sup>3</sup> at 25 °C |
| Liquid Density         | @ 25 °C (82 °F) | 1.13 g/cm <sup>3</sup> at 25 °C |

# Quickparts

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