

PRIMARY MFG

TOUGH-BLK 20 DLS

Designed to mimic injection molded ABS based on finish and mechanical properties.



| Tensile Properties, ASTM D638 | Metric | U.S. |
|---|-------------------------------|------------------------------|
| Tensile Modulus | 1780 MPa | 260 KSI |
| Ultimate Tensile Strength | 40 MPa | 5860 PSI |
| Tensile Strength at Yield | 40 MPa | 5860 PSI |
| Elongation at Break | | 36% |
| Elongation at Yield | | 4.6% |
| Flexural Properties, ASTM D790 | | |
| Flexural Modulus | 1650 MPa | 240 KSI |
| Flexural Strength | 61 MPa | 8775 PSI |
| Impact Properties | | |
| Notched Izod, ASTM D256 | 27 J/m | 0.5 Ft-lbs/in |
| Unnotched Izod, ASTM D4812 | 1008 J/m | 18.9 Ft-lbs/in |
| Thermal Properties | | |
| Heat Deflection, ASTM D648 | 55°C @0.45 MPa | 131°F @66PSI |
| | 45°C @1.82 MPa | 113°F @264 PSI |
| Coefficient of Thermal Expansion, ASTM E831 | (<T _g) 83 PPM/°C | (<T _g) 46 PPM/°F |
| | (>T _g) 173 PPM/°C | (>T _g) 96 PPM/°F |
| Glass Transition, ASTM E1640 | 46°C | 115°F |
| General Properties | | |
| Density, ASTM D792 | 1.11 g/cm ³ | 0.040 lb/in ³ |
| Hardness, ASTM D2240 | | 79, Shore D |
| Water absorption, 23°C, 24 hours, ASTM D570 | | 0.31% |