

Data Sheet: ABS SL 7820

Details

With a black appearance, this material is rigid and tough. It allows for accurate and robust build with good surface finish and detail. It has a heat deflection temperature of 51°C with tensile strength of 45MPa. It is used for automobile components, consumer packaging, electronic coverings and toys.

Key Features

Rigid, tough • Black appearance

Thermal Properties

Property	Value
Heat deflection [°C]	51
Glass transition temperature [°C]	62
Coefficient of thermal expansion [K-1 · 10-6]	93

Mechanical Properties

Property	Value
Tensile strength [MPa]	45
Modulus of elasticity [GPa]	1.89
Flexural strength [MPa]	75
Flexural modulus [GPa]	2.26
Hardness	86
Impact strength [J/m]	39
Elongation at break [%]	6

Physical Properties

Property	Value
Density [g/cm ³]	1.16

Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit [Materialdatacenter.com](https://www.materialdatacenter.com) for further information on this material.