

# Acrylic data sheet

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.043 lb/in <sup>3</sup>	ASTM D792

## Mechanical Properties

Tensile Strength, Ultimate	54 MPa	7830 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
Modulus of Elasticity	2.8 GPa	406 ksi	ASTM D638
Flexural Yield Strength	81 MPa	11700 psi	ASTM D790

## Thermal Properties

Maximum Service Temperature, Air	73 °C	163 °F	Deflection temperature at 1.8 MPa
Deflection Temperature at 1.8 MPa (264 psi)	73 °C	163 °F	ASTM D648
Vicat Softening Point	90 °C	194 °F	ASTM D1525
Flammability, UL94	HB	HB	

## Optical Properties

Transmission, Visible	92 %	92 %	Luminous Transmittance, ASTM D1003
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