

Acrylic Mirror

Silver mirror acrylic looks similar to glass mirror when you look into it with a high quality reflection. Mirrored acrylic is made from extruded acrylic sheet, and its reflective surface is protected by a highly resilient grey paint backing on all of our mirrored sheet products. This backing provides the most durable and toughest scratch-resistant backing in the acrylic mirror industry. The superior reflective surface is achieved by vacuum metallising with aluminium. Gold mirror is also available.

Acrylic mirror is best fixed via placing into a frame or by drilling through the material. The use of adhesives is commonplace with acrylic mirror; however, some may contain solvents such as toluene, ketones and hexane that can attack the back coat. Adhesives with solvents of 5% or more are not recommended. Since numerous adhesives are available, the chosen adhesive should be tested on a disposable piece prior to application with the test being for 72 hours before applying to the product. Acrylic mirror is not suited to outdoor situations. The front of the acrylic mirror is normal acrylic, which is also known as **Perspex®**, **Lucite®** and **Plexiglas®**. Acrylic is a transparent thermoplastic that is 17 times stronger than glass.

Key Properties		Units	Test Method
Components of Extruded Acrylic Mirror			
Polymethyl methacrylate (PMMA)	97.9	%	-
Methyl methacrylate (MMA)	0.5	%	-
Aluminum	0.1	%	-
Paint	1.5	%	-
Reflectivity over the 400–700 nanometer visual light spectrum	85-90	%	-
Continuous Service Temperature	71 (160)	°C (°F)	-
Heat Distortion Temperature	87 (190)	°C (°F)	-
General			
Density relative to water (=1)	1.29 (0.05)	g/cm ³ (lb/in ³)	ISO 1183
Water absorption (24 hrs)	0.030	mm	DIN 1784
Thermal			
Continuous Service Temperature	85 (185)	°C (°F)	-
Melting point	160 (320)	°C (°F)	-
Mechanical			
Impact Strength, Notched Izod @ 23°C	0.21 (0.4)	J/cm (ft-lbs/in)	-
Tensile Strength at Break	70	MPa	-
Elongation at Break	4	%	-
Flexural Strength	114	MPa	-

Notes

Figures shown are for panel thickness 3mm
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 Plexiglas® is a registered trademark of Evonik Industries.

DISCLAIMER: The purpose of this data sheet is to enable a consistent comparison with other products to help users to make an informed choice. The information provided in this product data sheet is for comparison and reference purposes only and is based on generic information gathered from a number of sources. In some cases the data provided is an average value only and represents our best attempt to describe the material's properties under typical factory conditions. We make no representations or warranties as to the completeness or accuracy of any of the data contained in this data sheet and users should use them as a general decision-making guide only. Branded data sheets are available on request. The information contained in this data sheet is subject to copyright. This data sheet cannot be reproduced for commercial purposes, apart from assisting users with making a purchasing decision, without the express permission of Plastic Wholesale.