

FABBACK Marine Grade Acrylic Mirror Properties

Physical	Test method	Units	FABBACK
Specific Gravity/Relative Density	ASTM D-792 / ISO 1183		1.19
Water Absorption	ASTM D-570 / ISO 62	% By wt	0.4

Mechanical	Test method	Units	FABBACK
Tensile Strength	ASTM D-638 / ISO 527	psi	**11,030
Tensile Modulus of Elasticity	--	psi	**490,000
Flexural Strength	ASTM D-790 / ISO 178	psi	**17,000
Izod Impact Strength – Molded Notch	ASTM D-256 / ISO 180	ft-lb/in Notch	**0.4
Rockwell Hardness	ASTM D-785 / ISO 2039-2		**M-95

Thermal	Test method	Units	FABBACK
Maximum Recommended Continuous Service Temperature		°F	160
Softening Temperature		°F	210-220
Melting Temperature		°F	300-315
Deflection Temperature @ 264 psi (1.8 MPa)	ASTM D-648 / ISO 75-2/A	°F	203
Deflection Temperature @ 66 psi (0.45 MPa)	ASTM D-648	°F	207
Coefficient of Thermal Expansion	ASTM D-696 / ISO 11359	in/(in-°F) x 10 <sup>-5</sup>	3.0
Flammability (Burning Rate)	ASTM D-635	In/minute	1.019
Smoke Density Rating	ASTM D-2843	%	3.4
Self-Ignition Temperature	ASTM D-1929	°F	833

\*\*Applicable to the acrylic substrate

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.