



ADVANCED MATERIALS

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Sound Barrier Acrylic Properties

Physical Properties	ASTM Test Method	Units	Values
Specific Gravity	D-792	g/cm ³	1.20
Water Absorption	D-570	% by wt	0.30
Optical Properties	ASTM Test Method	Units	Values
Optical Refractive Index	D-542		1.49
Light Transmission-Total	D-1003	%	92
Light Transmission-Haze	D-1003	%	<1
Mechanical Properties	ASTM Test Method	Units	Values
Tensile Strength - Max.	D-638	psi	11,030
Tensile Elongation - Max.	D-638	%	5.8
Tensile Modulus of Elasticity	D-638	psi	490,000
Flexural Strength - Max.	D-790	psi	17,000
Flexural Modulus of Elasticity	D-790	psi	490,000
Rockwell Hardness	D-785		M-100
Sound Reduction	Test Method	Units	Values
Noise reduction 15 mm thickness(100-3500HZ)	ISO 717-1:1996	dB	32
Noise reduction 15 mm thickness(100-5000HZ)	DIN EN1793-2	dB	29

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.