

OPTIX NB – NOISE BARRIER ACRYLIC SHEET

OPTIX NB is a continuously-processed acrylic sheet designed to block traffic noise without obstructing views. UV stable and extremely weatherable, OPTIX NB will maintain its impact strength and superior clarity through years of sunlight exposure.

OPTIX NB meets the requirements of ZTV-LSW 06, EN 1793 and EN 1794

Available in widths up to 100”.

APPLICATIONS

Highway noise barriers

TYPICAL PROPERTIES*

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity/Relative Density	ASTM D792	-	1.19
Optical Refractive Index	ASTM D542	-	1.49
Light Transmission - Total	ASTM D1003	%	>91
Light Transmission - Haze	ASTM D1003	%	<3
Sound Transmission	ASTM E90 / E413	dB	>30
Water Absorption	ASTM D570	%	0.4
MECHANICAL			
Tensile Strength	ASTM D638	psi	11,030
Tensile Modulus of Elasticity	ASTM D638	psi	490,000
Flexural Strength	ASTM D790	psi	17,000
Izod Impact Strength - Notched	ASTM D256	ft-lb/in	0.4
Rockwell Hardness	ASTM D785	-	M-95
THERMAL			
Maximum Recommended Continuous Service Temperature	-	°F	170-190
Softening Temperature	-	°F	210-220
Deflection Temperature @ 264 psi (1.8 MPa)	ASTM D648	°F	>190
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.0x10 ⁻⁵
Flammability (Burning Rate)	ASTM D635	in/minute	1.0
Smoke Density Rating	ASTM D2843	%	3.4
Self-Ignition Temperature	ASTM D1929	°F	833

*Typical properties are not intended for specification purposes

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 determines the suitability of our materials and suggestions before adopting them on a commercial scale.