

RAY-BAR ENGINEERING CORPORATION

TECHNICAL DATA FOR FIREPLACE GLASS PANELS

Product Trade Name: NEOCERAM

PRODUCT DESCRIPTION:

A Clear Glass-Ceramic panel that is resistant to thermal shock and heat resistant nearly 3x more than that of standard tempered glass

ATTENTION:

Please note the following points:

- 3/16" (5mm) thick clear silica coated Glass-Ceramic
- Available cut to customer order size
- Standard stock sizes up to 44" x 78" maximum
- Excellent heat resistance
- Withstands continuous temperatures up to 1292°F
- Almost zero thermal expansion coefficient
- This product is not UL listed or classified
- This is not a Fire Rated Product
- This product is not Fire Protective or Fire Resistive
- This product is not impact resistant

PHYSICAL PROPERTIES FOR NORMAL SERVICE (APPROXIMATE 1/4" THICKNESS)			
°F NORMAL SERVICE	1250	NEOCERAM 1292° F + FIREPLACE GLASS-CERAMIC	
	1000		
	750		
	500		
	250		TEMPERED WINDOW GLASS 428°F
	0		REGULAR WINDOW GLASS 230°F

MAXIMUM SHEET SIZE OF NEOCERAM AVAILABLE IS 44" X 78"

THERMAL HEAT RESISTANCE

CONTINUOUS: 750 C / 1382 F
SHORT TERM: 800 C / 1472 F
THERMAL CONDUCTIVITY: 1.6

MECHANICAL PHYSICAL PROPERTIES

DENSITY: 2.5 gm/cm³
VICKERS HARDNESS: 700 HV/10
YOUNG'S MODULUS: 94
STC: 35

OPTICAL PROPERTIES

REFRACTION INDEX: 1.54
VISIBLE REFLECTION: 9%
VISIBLE LIGHT TRANSMISSION: 88%

* For Fire Protective against flame and smoke or Fire Rated Glass utilize:
Ceramic Glass products: FireLite, FireLite+PLus or WireLite-NT (UL Listed)

* For Fire Resistive, Flame, Smoke, Radiant Heat and Conductive Heat Barrier utilize:
Pyrostop Glass (UL Listed)

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"WHEN PROTECTION IS REQUIRED, THERE IS NO SUBSTITUTE FOR SKILL AND EXPERIENCE"