

**PERFORMANCE**

# **ULTRA CLEAR FLOAT GLASS**

**MATERIAL DATA AND  
MECHANICAL & PHYSICAL PROPERTIES**

**NOVAL GLASS GROUP LTD**

E-mail: [info@novalglass.com](mailto:info@novalglass.com)

Tel: +86-532-82751111

Fax: +86-532-82755222

Add: No.33 Shandong Rd, Qingdao, China

# ULTRA CLEAR FLOAT GLASS MATERIAL DATA AND MECHANICAL & PHYSICAL PROPERTIES

## MATERIAL DATA

COMPOSITION	WEIGHT
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.0145%
Ferrous Oxide (FeO)	0.0065%
Silicon Dioxide (SiO <sub>2</sub> )	73.2%
Calcium Oxide (CaO)	11.25%
Sodium Oxide (Na <sub>2</sub> O)	15.1%
Magnesium Oxide (MgO)	0.06%
Aluminium Oxide (Al <sub>2</sub> O <sub>3</sub> )	0.15%
Potassium Oxide (K <sub>2</sub> O)	0.04%
Sulfur Dioxide (SO <sub>2</sub> )	0.17%

## MECHANICAL & PHYSICAL PROPERTIES

ITEM	PERFORMANCE	
Elasticity Modulus	73.1Gpa	
Rupture Modulus (Tensile Strength - Ultimate)	41.4 Mpa	
Knoop Hardness	456kgf/mm2	
Linear Coefficient Of Expansion 20-300°C	9.28×10-6/°C	
Transformation Temperature	556°C	
Intenerate Temperature Or Yield Point	606°C	
Softening Point	710°C	
Annealing Point	547°C	
Strain Point	513°C	
High Temperature Viscosity	Log 2	1392°C
	Log 3	1152°C
	Log 4	996°C
Liquid Phase Temperature	1008°C	
Specific Gravity	2.5076 g/cm3	